CASSETTE RECEIVER

KRC-856R/RL

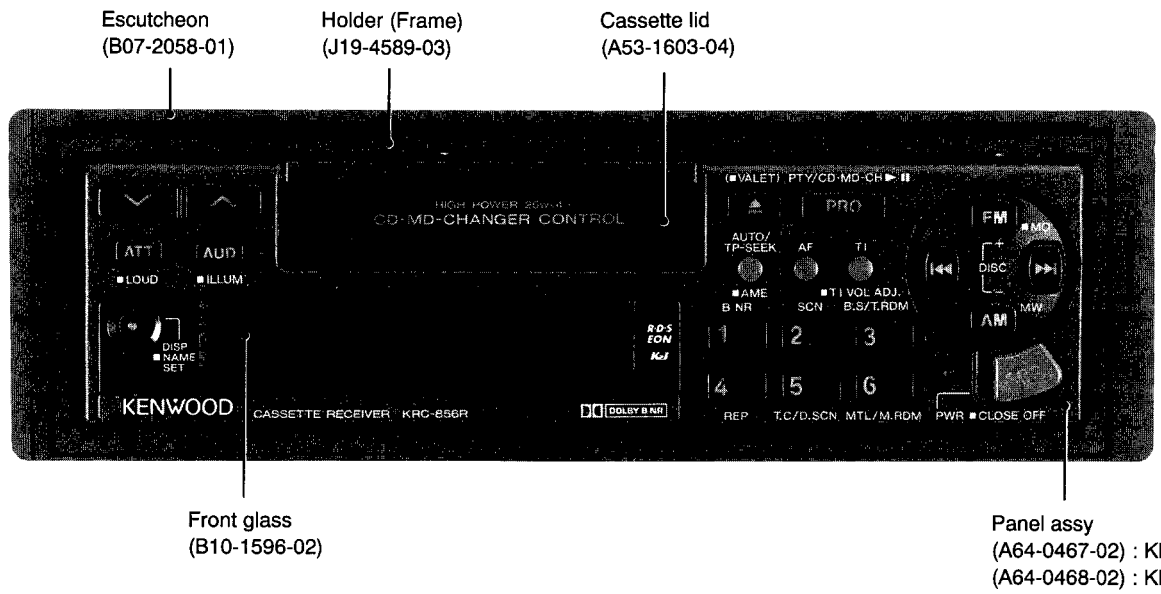
SERVICE MANUAL

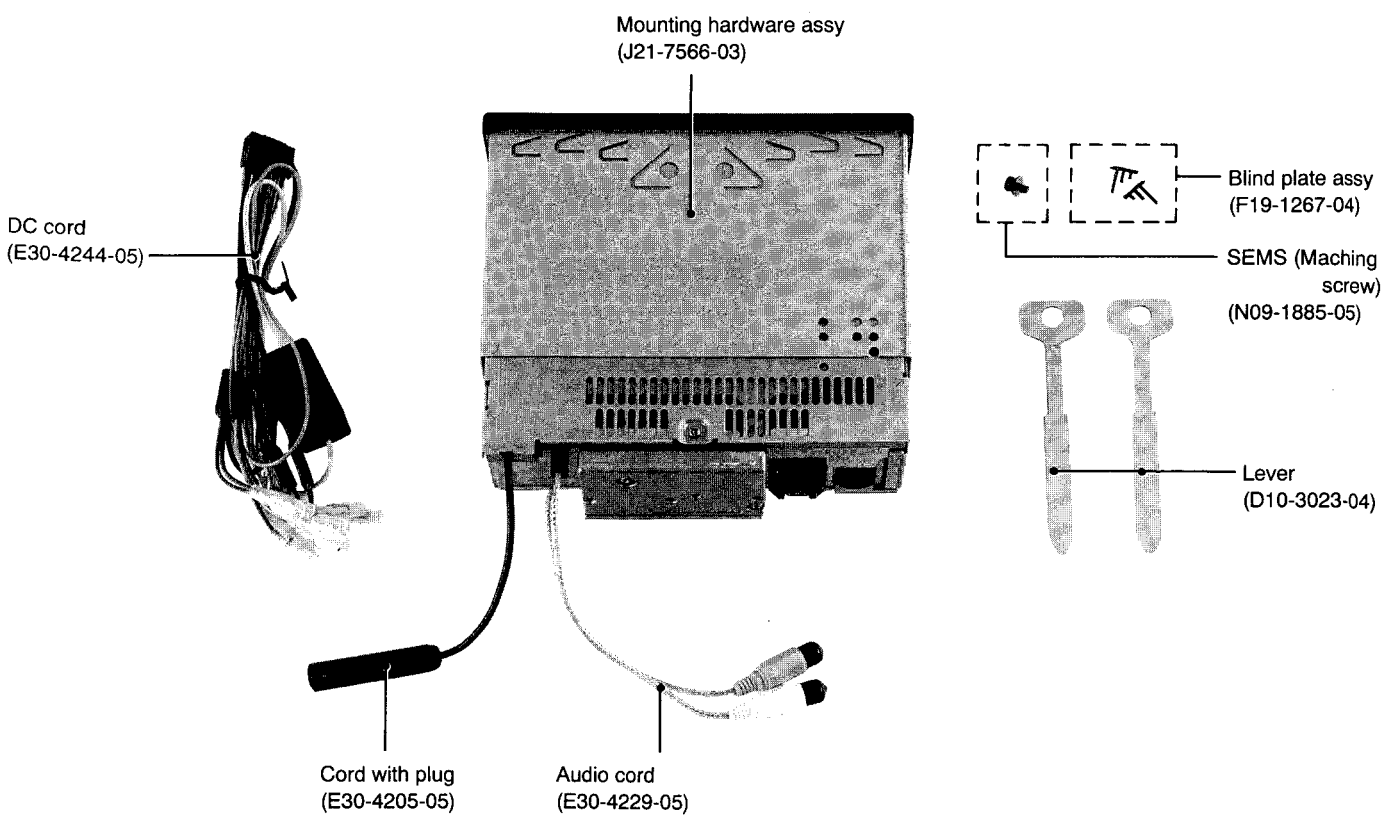
KENWOOD

B51-6845-00 (S) 2297

Photo is KRC-856R

Cassette Mechanism extension cord for service
W05-0477-00(7P)
W05-0478-00(12P)





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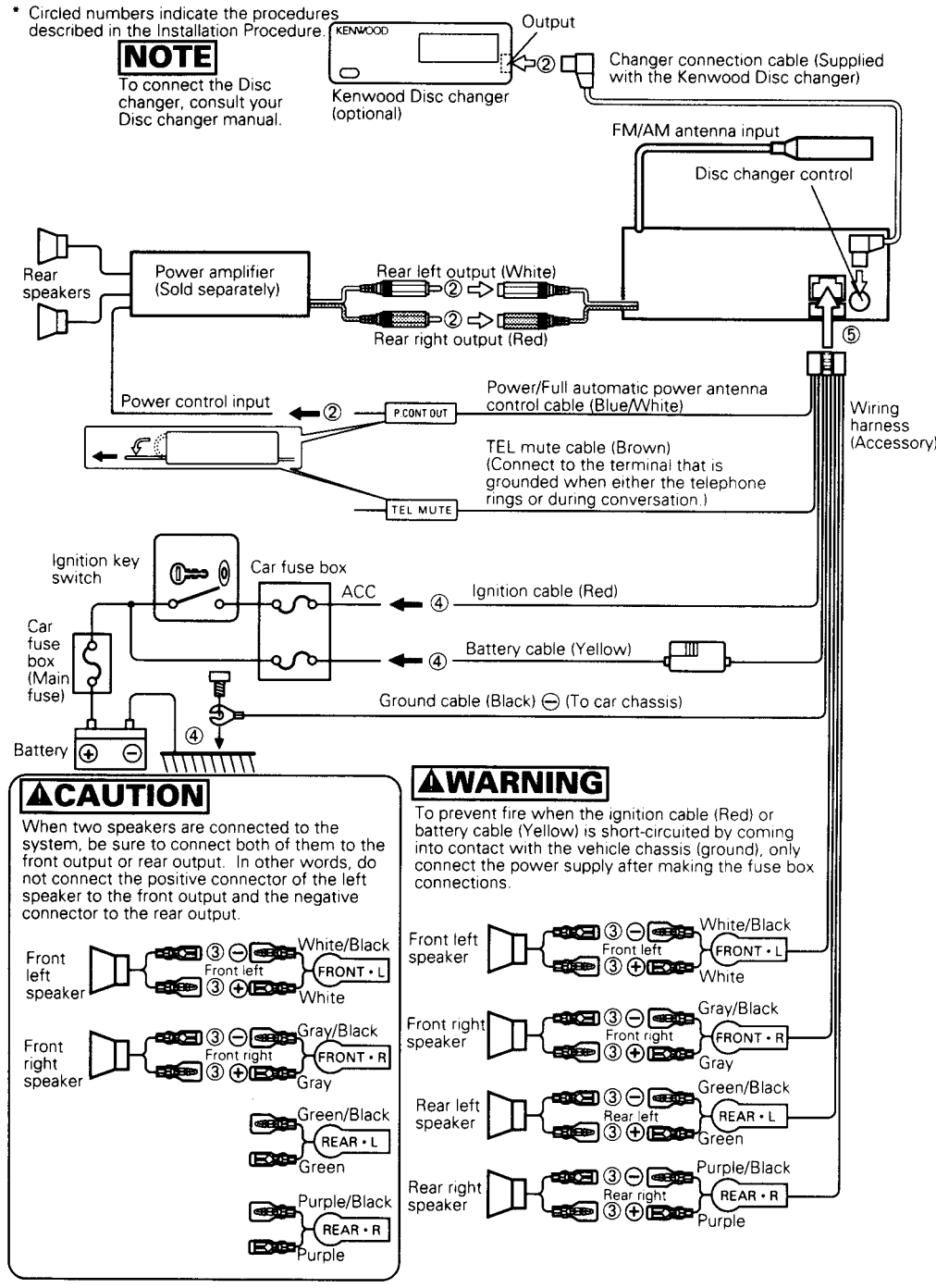
CONTENTS/CONNECTION

CONNECTION

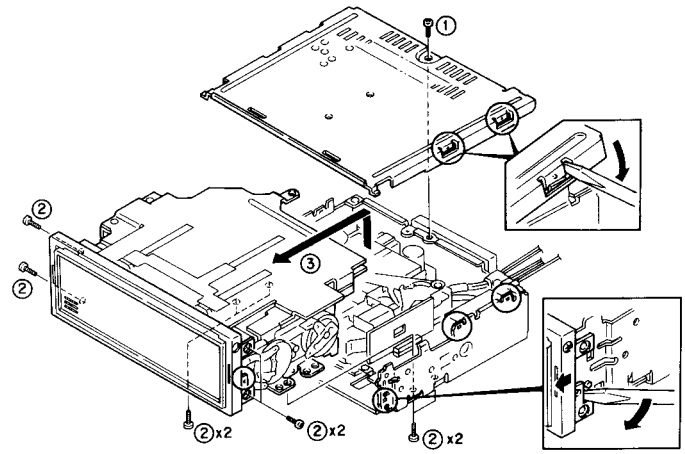


DISASSEMBLY FOR REPAIR

Disassembly in case the control panel is stored inside the set

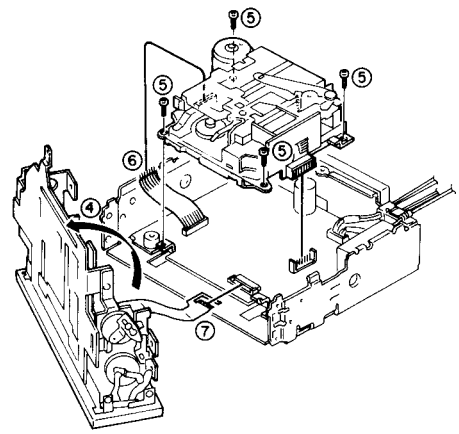
1 Removing the shutter and storage mechanism ass'y

1. Remove the screw (①) and remove the top panel.
2. Remove the 8 screws (②) and slide out the unit by lifting it slightly (③).



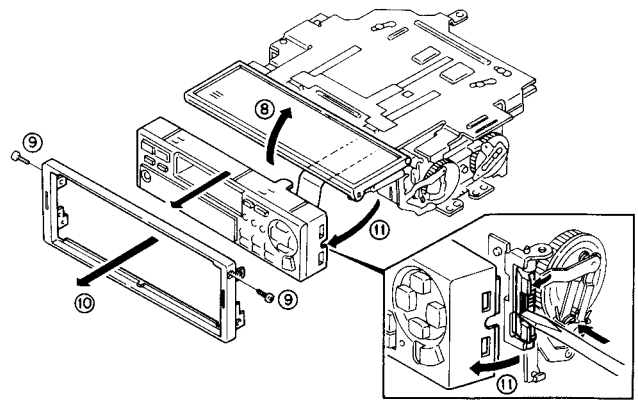
2 Removing the cassette mechanism

1. Stand the shutter and storage mechanism ass'y (④).
2. Remove the 4 screws (⑤) and lift the cassette mechanism.
3. Disconnect the flexible wire (⑥).
4. Remove the flexible board (⑦) and take out the cove and storage mechanism ass'y.



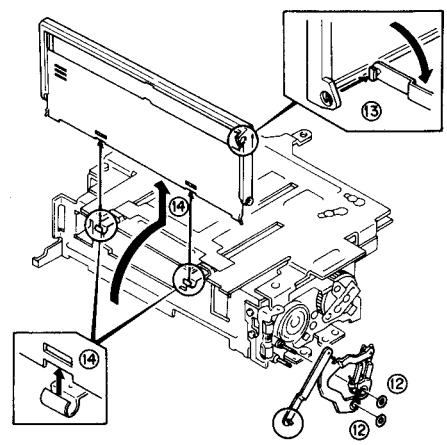
3 Removing the control panel

1. Open the shutter (⑧), remove the 2 screws (⑨) and pull out the frame (⑩).
2. Insert a flat-blade screwdriver into the right side of the control panel to unlock the control panel by pushing the control panel holder (⑪), and pull out the control panel.



4 Removing the shutter

1. Remove the 2 washers (⑫) and remove the arm ass'y.
2. Open the arm ass'y by 90 degrees and pull it out of the shutter frame (⑬).
3. Flap open the shutter upward and disengage it from the claws (⑭).



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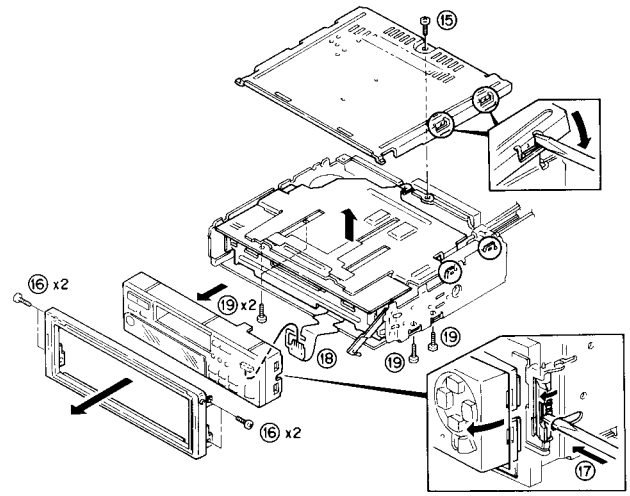
DISASSEMBLY FOR REPAIR

Disassembly in case the control panel is exposed outside the set

1 Removing the control panel and storage mechanism ass'y

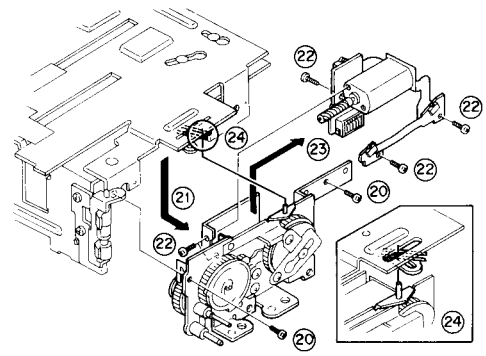
1. Remove the screw (⑮) and remove the top panel.
2. Remove the 4 screws (⑯) and remove the frame.
3. Insert a flat-blade screwdriver into the right side of the control panel (hole on the chassis) to unlock the control panel by pushing the control panel holder (⑰).
4. Separate the flexible board (⑱) from the control panel.
5. Remove the 4 screws (⑲) and remove the storage mechanism ass'y.



Removing the motor ass'y

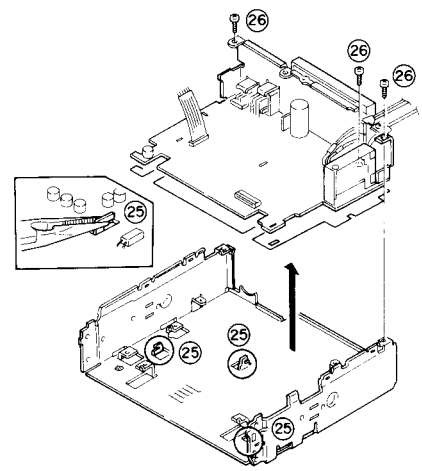
1. Remove the 2 screws (⑳) and remove the motor and gear unit as if sliding them downward (㉑).
2. Remove the 5 screws (㉒) and remove the motor ass'y (㉓).

* Before assembling the motor and gear unit, be sure to inset the pins into the arm hole, between springs and into the hole on the chassis (㉔).

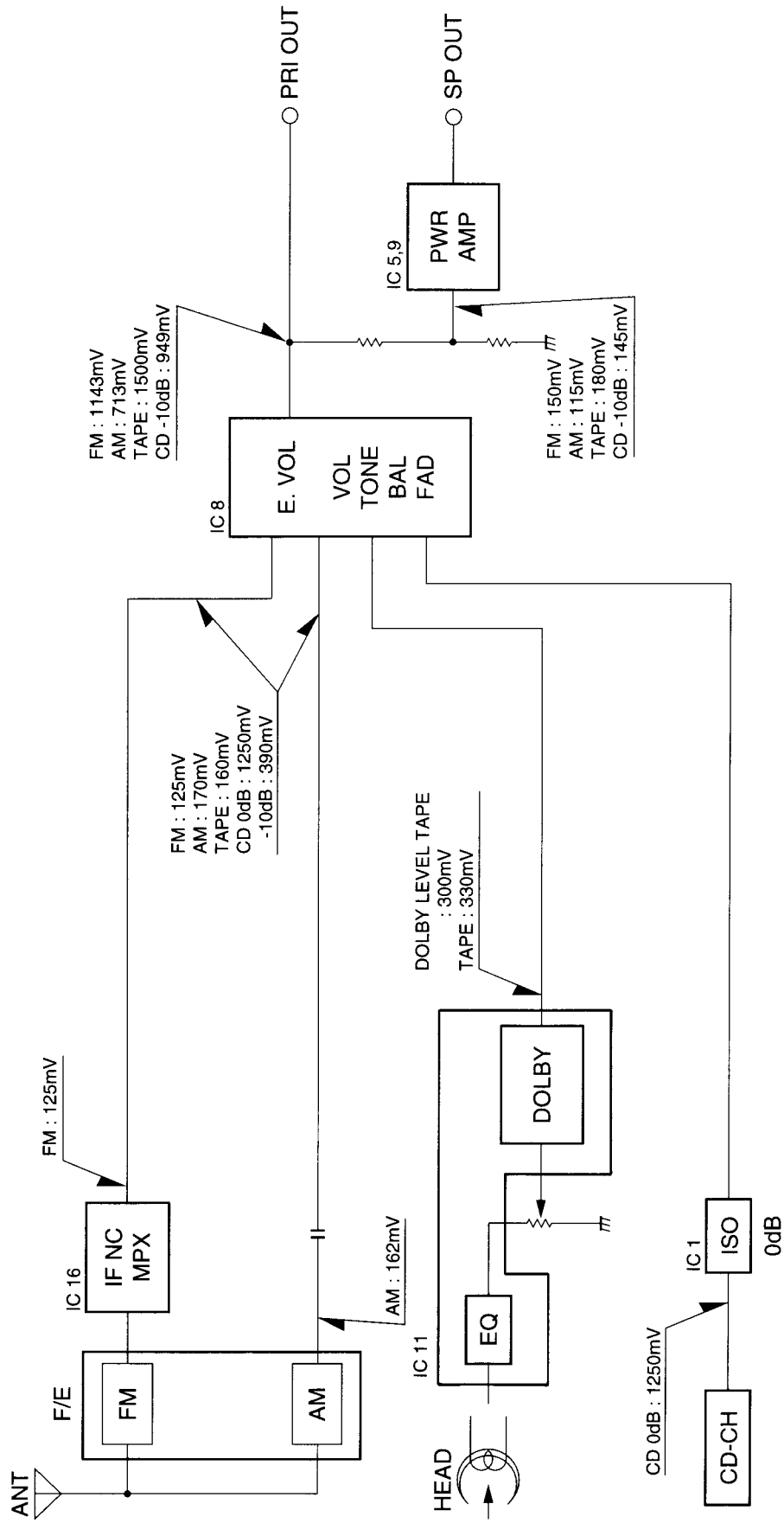


Removing the Main PCB unit

1. Straighten the 3 claws using a pair of pliers (㉕).
2. Remove the 3 screws (㉖) and remove the Main unit.



LEVEL DIAGRAM



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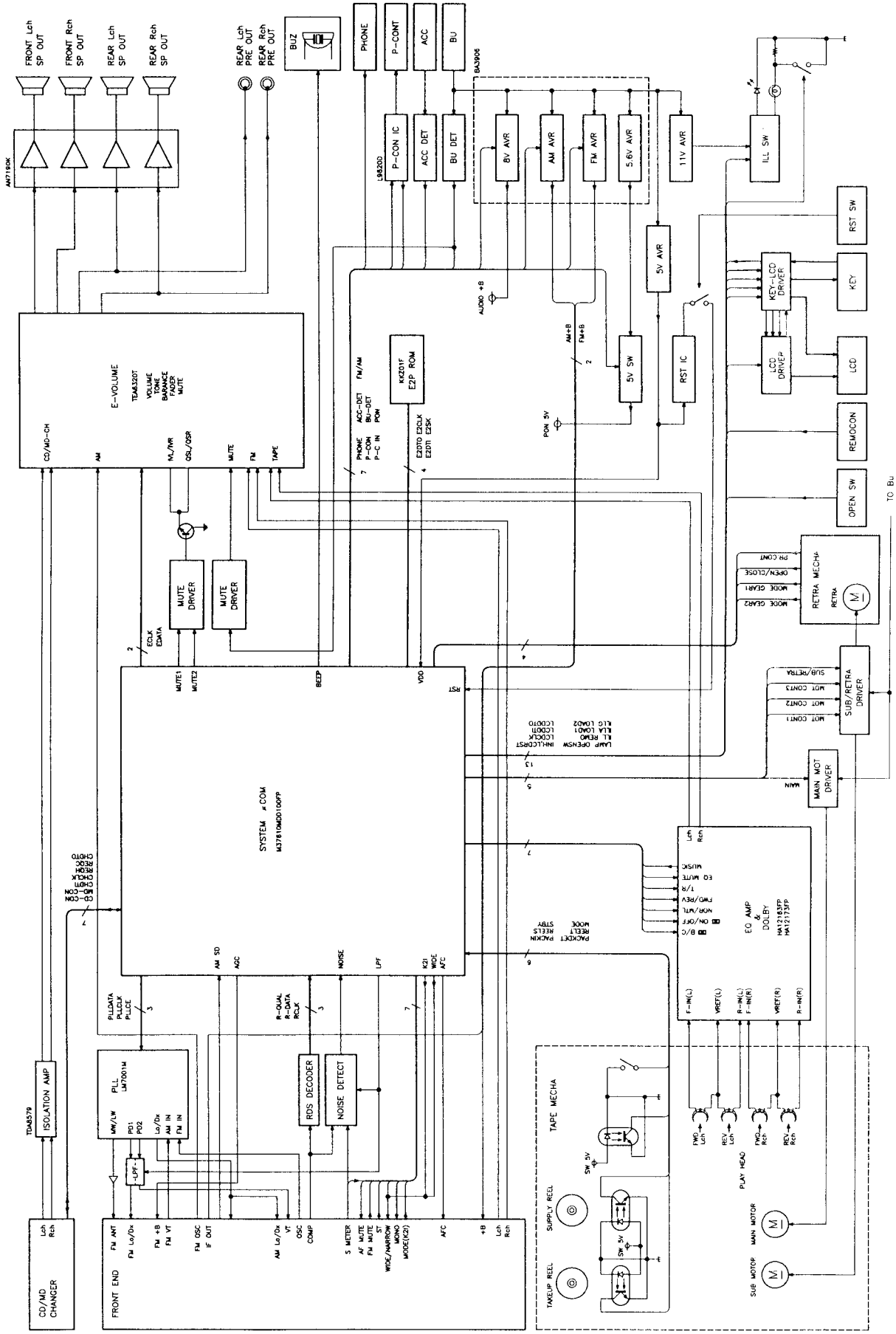
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Synthesizer unit (X14-5302-XX)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
IC1	TDA8579T-T	Isolation Amp	For CD-CH, MD-CH
IC2	BA3906-V4	Multi power supply	+5.6 V +8 V
IC3	KKZ01F	Code security data memory	
IC4	L9820D013TR	P-CON Supply	
IC5	AN7190K	Power amplifier	
IC6	S-80740AN-D4	Reset IC	
IC7	M37610MDD100FP	Master μ-COM	
IC8	TEA6320T	Electronic volume	
IC9	AN7190K	Power amplifier	
IC10	SAA6579T	RDS demodulator	
IC11	HA12173FP	Tape EQ and dolby NR	
IC12	BA6238A	Sub motor diriver	
IC13	TC4W66F	CMOS analog switch	For L.P.F
IC14	NJM4565M	Noise amplifier	For Noise Detector
IC15	LM7001M	PLL IC	PLL for FM/AM tuner
IC16	KKC04	IF/NC/MPX	K_2I
IC17	TC4S66F	CMOS analog switch	For AF MUTE
IC18	TA75S393F	Comparator	During K_2I operation, switches the adjacent interference ditection sensitivity by detecting over-modulation
Q1	DTC124EK/XDC124EK	Beep drive	
Q2	DTC144EK/XDC144EK	Power on SW	
Q3	DTC124EK/XDC124EK	ILL +B SW	
Q4	DTA114EK	ILL +B SW	
Q5	2SB1443	Main motor drive	
Q6	DTC114EK	Motor driver SW	
Q7	DTA124EK/XDA124EK	STBY SW	For BA3906
Q8	2SB1184	ILL +B Regulator	
Q9	2SC2412K	ILL +B Regulator	
Q10	2SA1559(R)	P-on 5 V driver	
Q11	2SD1760	VDD 5 V driver	
Q12	2SB1326	ILL Green SW	
Q13	DTC114EK	High voltage detect	
Q14	DTC124EK/XDC124EK	ILL Green SW	
Q15	DTA124EK/XDA124EK	CD-CON SW	
Q16	DTA124EK/XDA124EK	MD-CON SW	
Q17	DTA144EK	TEL MUTE SW	
Q18	2SB1326	ILL Amber SW	
Q19	2SC2412K	Bu detect	
Q20	DTC124EK/XDC124EK	ILL Amber SW	
Q21	DTC124EK/XDC124EK	MD-CON SW	
Q22	DTC144EK/XDC144EK	Mute control SW	
Q23, Q24	2SD2114K	Mute SW	
Q25	2SC2411K(R)	LAMP GND SW	
Q26	2SA1037K	Mute driver	

CIRCUIT DESCRIPTION

Synthesizer unit (X14-5302-XX)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
Q27	DTC144EK/XDC144EK	RST SW	
Q28	DTC144EK/XDC144EK	T-ADV Circuit time constant SW	
Q29	DTA144EK	T-ADV Circuit time constant SW	
Q30	DTC124EK/XDC124EK	Regulator control SW for Sub motor	
Q31	DTA124EK/XDA124EK	Regulator control SW for Sub motor	
Q32	2SB1565	Regulator for sub motor	
Q33	2SC2412K	Regulator for sub motor	
Q34	DTC124EK/XDC124EK	Voltage controler for sub motor driver IC	
Q35	2SC2412K	Noise detect driver	
Q36	DTC114TK	Time constant SW for Noise detector	
Q37	DTA124EK/XDA124EK	Time constant SW for Noise detector	
Q38	DTC144EK/XDC144EK	Control SW for IC13	
Q39	2SA1037K	+B Supply for L.P.F	
Q40	2SK536	AM L.P.F	
Q41	2SK536	FM L.P.F	
Q42	2SC2412K	CRSC drive	
Q43	DTC144EK/XDC144EK	FM MONO SW	
Q44	DTC124EK/XDC124EK	FM LO/DX SW	
Q45	DTA124EK/XDA124EK	MW/LW SW	
Q46	2SC2412K	FM S-Meter Buff	
Q47, Q48	2SC2413K	IF AMP	
Q49	DTC114TK	AFC control	
Q50	DTA144EK	AFC control	
Q51, Q52	2SC2412K	FM composite Buff	
Q53	DTC144WK	E-VOL MUTE control	
Q54	DTC144EK/XDC144EK	E-VOL MUTE control	
Q55	DTA144EK	LO.S SW	
Q56	DTC144EK/XDC144EK	AM AGC SW	
Q57	DTC124EK/XDC124EK	K2I control	
Q58	DTC124EK/XDC124EK	AF MUTE SW	
Q60	DTC144EK/XDC144EK	FM VT inhivite	During AM
Q61	DTC144EK/XDC144EK	K2I WIDE control	During TEST MODE

Switch unit (X25-7312-73)

Component	Name	Purpose, Function	Operation, Condition, Compatibility
IC1	LC75852E	LCD Driver with key scan	
IC2	LC75821E	LCD Driver	
IC3	RS-31N	Remote controller sensor	
Q1	DTA144EK	Panel detection SW	
Q2	DTC144EK/XDC144EK	Panel detection SW	
Q3	DTC144EK/XDC144EK	Remote controller 5V SW	
Q4	DTA114EK	Remote controller 5V SW	
Q5	DTA144EK	RST SW	

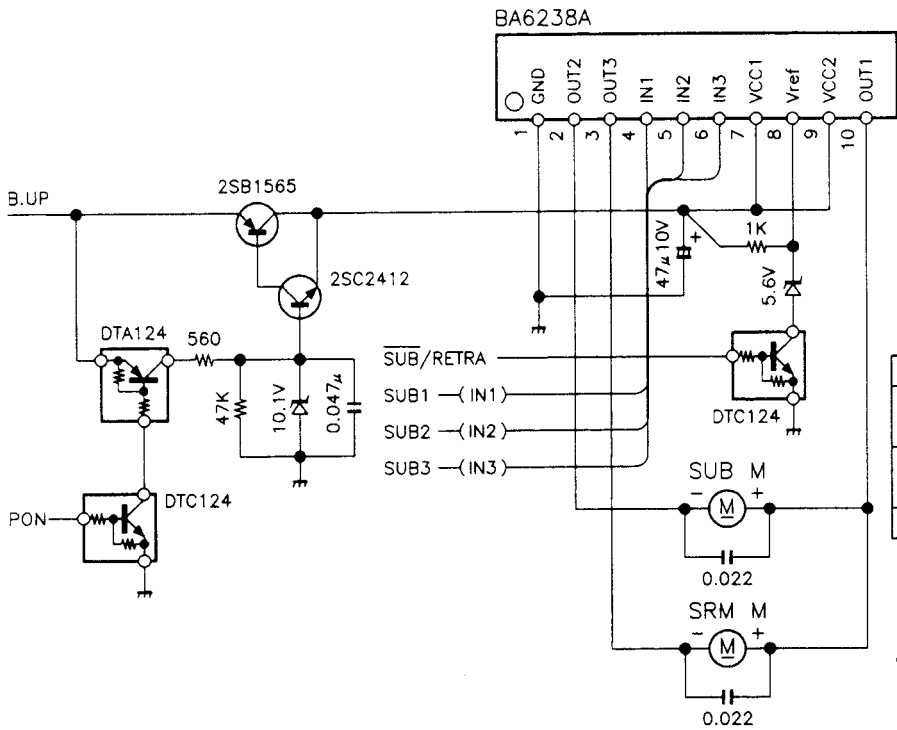
CIRCUIT DESCRIPTION

Circuit Operation Description

● Synthesizer Unit (X14-5302-XX)

Sub SRM motor driver

The operations of the C cassette sub-motor and SRM motor are switched by a single driver circuit, the circuit diagram of which is shown below.



		IN			OUT		
		1	2	3	1	2	3
STOP		0	0	I/O	L	L	L
SUB MOTOR	FORWARD	I	0	0	H	L	X
	REVERSE	I	0	I	L	H	X
SRM MOTOR	REVERSE	0	I	0	H	X	L
	FORWARD	0	I	I	L	X	H
STOP		I	I	I/O	L	L	L

Table - 1

Sub-motor outputs OUT1,2 and 3 are controlled by controlling IN1,2 and 3 of the BA6238A as shown in Table-1. For example, if IN1=H, IN2=L and IN3=L, OUT1=1, OUT2=L, OUT3=OPEN so the sub-motor rotates in the forward (loading) direction.

With the SRM motor, the forward rotation moves the guide upward and opens or close the shutter, and the reverse rotation moves the guide downward.

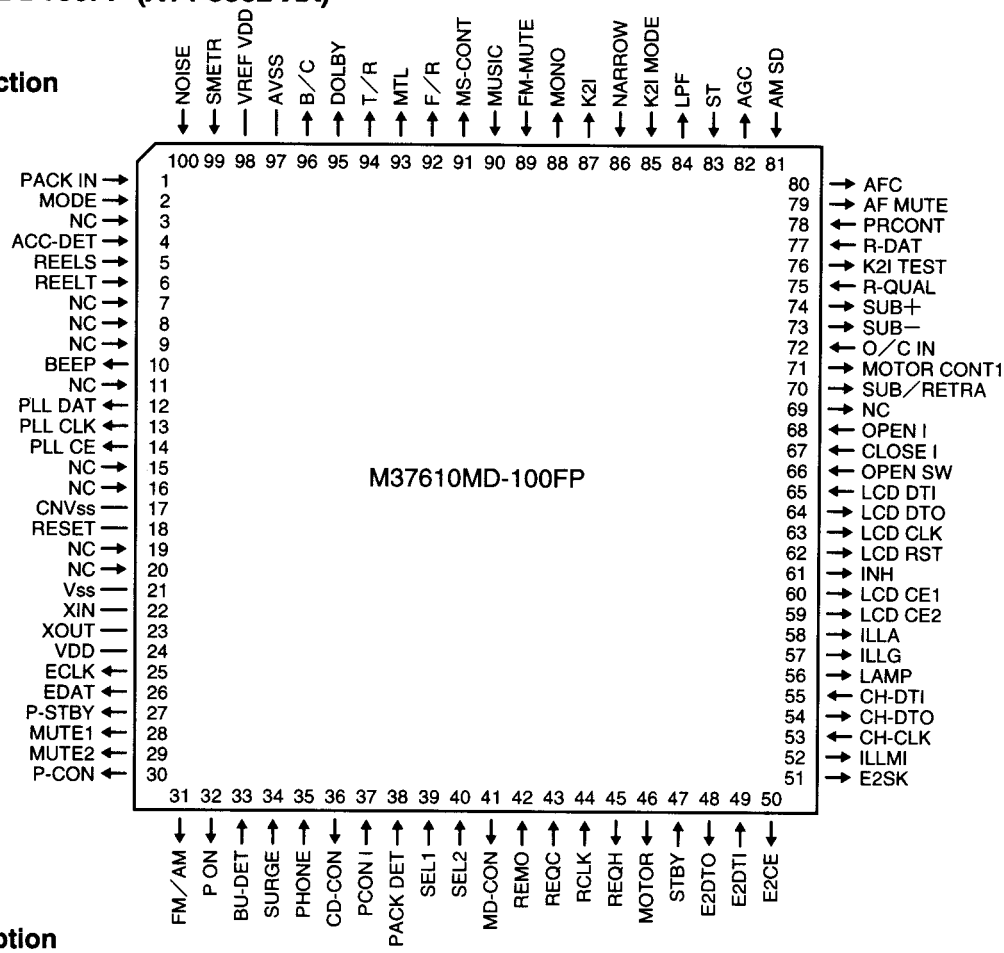
The output voltage is controlled by voltage Vref, and 7.5 V with sub-motor operation and 5.0 V with SRM motor operation.

CIRCUIT DESCRIPTION

IC7 : M37610MDD100FP (X14-5302-XX)

Microcomputer

Terminal connection



Terminal Description

No.	Pin Name	I/O	Name	Active	Function	Halt
1	P95	I	PACK IN	H	Cassette pack IN SW. Pack IN = "H".	
2	P94	I	MODE		Cassette mechanism mode pulse detection.	
3	P93	I	NC	H	Not used.	
4	P92	I	ACC-DET	H	ACC ON/OFF input. ON >= 2.5 V.	
5	P91	I	REELS		Cassette mechanism reel pulse (supply reel).	
6	P90	I	REELT		Cassette mechanism reel pulse (take-up reel).	
7	P87	O	NC		Not used.	L
8	P86	O	NC		Not used.	L
9	P85	O	NC		Not used.	L
10	P84	O	BEEP		Beep output.	L
11	P83	O	NC		Not used.	L
12	P82	O	PLL DTA		PLL data output.	L
13	P81	O	PLL CLK		PLL clock output.	L
14	P80	O	PLL CE		PLL CE output.	L
15	PB3	O	NC		Not used	L
16	PB2	O	NC		Not used	L
17	CNVSS	I	NC		Not used.	
18	RESET	I	RST	L	Reset terminal.	L
19	PB1	O	NC		Not used.	L
20	PB0	O	NC		Not used.	L
21	VSS		GND			
22	XIN		XIN		Oscillator connection terminal.	
23	XOUT		XOUT		Oscillator connection terminal.	
24	VCC		VDD			

CIRCUIT DESCRIPTION

No.	Pin Name	I/O	Name	Active	Function	Halt
25	P77	O	ECLK		E2PROM clock.	L
26	P76	O	EDAT		E2PROM data.	L
27	P75	O	P-STBY		Power IC ON/OFF.	L
28	P74	O	MUTE1	H	Audio muting.	L
29	P73	O	MUTE2	H	Audio muting.	L
30	P72	O	P-CON	H	Power control.	L
31	P71	O	FM /AM		FM /AM band switching.	L
32	P70	O	P-ON	H	Peripheral power control.	L
33	P67	I	BU-DET	L	Back-up detection.	
34	P66	I	SURGE	L	Surge detection.	
35	P65	I	PHONE	H	Phone input.	
36	P64	O	CD-CON	L	Changer control 1.	
37	P63	I	PCON I	H	P-CON IC monitor input.	
38	P62	I	PACK-DET	H	Cassette mechanism pack detection.	
39	P61	I	SEL 1		Destination selection. R: H. RL:L.	
40	P60	I	SEL 2		Destination selection. 956: H. 856: L.	
41	P57	O	MD-CON	H	Changer control 2.	
42	P56	I	REMO		Remote control input.	
43	P55	I	REQC	L	Disc changer communication request.	
44	P54	I	RCLK		Demodulator IC clock input.	
45	P53	O	REQH	L	Disc changer communication request.	
46	P52	O	MOTOR	H	Cassette mechanism motor control.	
47	P51	I	STNBY	H	Cassette mechanism standby position detection.	
48	P50	O	E2DTO		E2PROM data output.	
49	P47	I	E2DTI		E2PROM data input.	
50	P46	O	E2CE		E2PROM CE.	
51	P45	O	E2SK		E2PROM clock.	
52	P44	O	ILLMI	H	Illumination ON/OFF.	
53	P43	I	CH-CLK		Disc changer clock input.	
54	P42	O	CH-DTO		Disc changer data output.	
55	P41	I	CH-DTI		Disc changer data input.	
56	P40	O	LAMP	H	LCD lamp ON/ OFF .	
57	P37	O	ILLG	H	Illumination - green ON/ OFF .	
58	P36	O	ILLA	H	Illumination - amber ON/ OFF .	
59	P35	O	LCD CE2		LCD CE2.	
60	P34	O	LCD CE1		LCD CE1.	
61	P33	O	INH	L	INH control.	L
62	P32	O	LCD RST	L	LCD reset.	H
63	P31	O	LCD CLK		LCD clock output.	L
64	P30	O	LCD DTO		LCD data output.	L
65	P17	I	LCD DTI		LCD data input.	L
66	P16	I	OPEN SW	L	Open SW input.	L
67	P15	I	CLOSE I	H	Storing mechanism gear SW1 input.	L
68	P14	I	OPEN I	H	Storing mechanism gear SW2 input.	L
69	P13	O	NC			
70	P12	O	SUB/RETRA	H	Sub-motor voltage switching.	
71	P11	O	MOTOR CONT 1		Sub-motor output control.	
72	P10	I	O/C IN		Storing mechanism Open/ Close input.	
73	P07	O	MOTOR CONT 2	H	Sub-motor output control.	
74	P06	O	MOTOR CONT 3		Sub-motor output control.	
75	P05	I	R-QUAL		Demodulator IC QUALITN input.	

CIRCUIT DESCRIPTION

No.	Pin Name	I/O	Name	Active	Function		Halt
76	P04	O	K2I TEST	H			
77	P03	I	R-DAT	L	Demodulator IC data input.		
78	P02	I	PRCONT		Storing mechanism detection.	Detected: L.	
79	P01	O	AF MUTE	H	High-speed muting.		
80	P00	O	AFC	H	AFC ON/OFF.		
81	P27	I	AM SD	L	AM station detection.		
82	P26	O	AGC	H	AM auto gain control.		
83	P25	I	ST	L	FM ST input.		
84	P24	O	LPF		LPF ON/OFF.	During Seek: L.	
85	P23	I	K2I MODE		K2I Wide/Narrow input.	WIDE: H. TO: L.	
86	P22	O	NARROW	H	Forced narrow output.		
87	P21	O	K2I		K2I control.	WIDE: H. AUTO: L.	
88	P20	O	MONO	H	FM forced mono output.		
89	PA7	I	FM-MUTE		FM station detection.	Station detected: H.	
90	PA6	I	MUSIC		Music detection.	Music detected: L.	
91	PA5	O	MS-CONT		Music space detection control.	During DPSS: L.	
92	PA4	O	$\overline{F}$ /R		TAPE PLAY direction control.	FWD: L. REV: H.	
93	PA3	O	MTL	H	METAL ON/OFF.		
94	PA2	O	$\overline{T}$ /R (EQMUT)		TAPE audio ON/OFF.	T: L. R: H.	
95	PA1	O	DOLBY	H	DOLBY ON/OFF.		
96	PA0	O	$\overline{B}$ /C		DOLBY B/C switching.	B: L. C: H.	
97	AVSS	I	GND				
98	VREF	I	VDD				
99	P97	I	SMETR		FM field strength input (AD).		
100	P96	I	NOISE		FM noise input (AD).		

How to write security code after E2PROM (KKZ01F) replacement

The security code can be written only after the E2PROM has been changed to an E2PROM with nothing written in it.

a) Code write procedure

1. After turning power ON, switch all sources OFF and press and hold the DISP key for 3 seconds.

   CODE - - - -

   ↓

2. Enter the code using preset keys [1] to [4] .

   Example for entry of code 1240

   [1] · · · · CODE 0 - - -

   ↓

   [1] · · · · CODE 1 - - -

   ↓

   [2] · · · · CODE 1 0 - -

   ↓

   [2] · · · · CODE 1 1 - -

   ↓

   [2] · · · · CODE 1 2 - -

   ↓

   [3] · · · · CODE 1 2 0 -

   ↓

   [3] · · · · CODE 1 2 1 -

   ↓

   [3] · · · · CODE 1 2 2 -

   ↓

   [3] · · · · CODE 1 2 3 -

   ↓

   [3] · · · · CODE 1 2 4 -

   ↓

   [4] · · · · CODE 1 2 4 0

   After entry of 4th digit

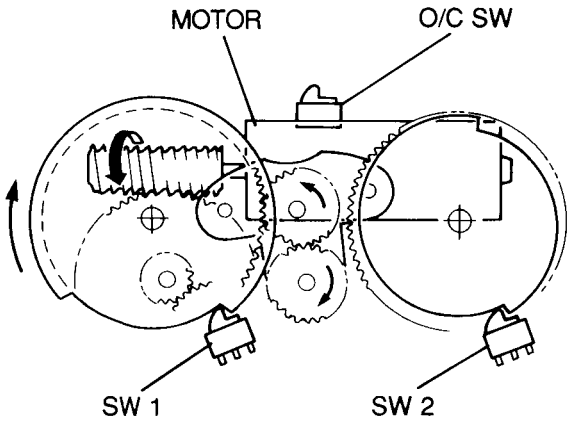
3. Press and hold the DISP key for 3 seconds... Now the code entry is complete.
4. Switch ON the RESET switch.

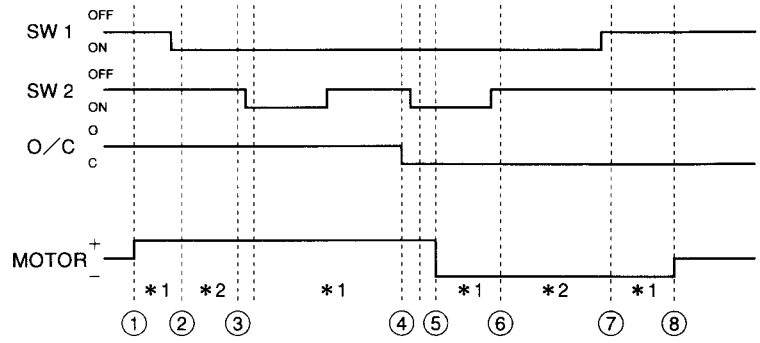
The code can be written with the above procedure. After it, the entire security mode is reset to the initial condition.

- To quit the code write mode in the middle (possible up to step 2), just turn power OFF. The procedure can be restarted from step 1.
- Be always sue to follow the procedure step by step. If you commit an error or if you press and hold the DISP key for 3 seconds before the entire code has been entered, you will not be able to write the code normally.

CIRCUIT DESCRIPTION

Retractable mechanism control specification





● Control procedure

① If SW1 is OFF and SW2 is OFF, normal operation is performed.
- The motor is rotated in the forward direction.

If SW1 is OFF and SW2 is ON, the operation is judged to be abnormal and stopped immediately.

If SW1 is ON or the O/C SW cannot be detected, the motor is rotated in the forward direction and processing starts from step ④ below.

② Switching ON of SW1 is confirmed.
- The motor is rotated in the forward direction.

③ The negative going of SW2 is detected ↓.
- The motor is rotated in the forward direction.

④ The negative going of SW2 is detected ↓.
In closing operation, it is also checked if the O/C SW is ON; if it is OFF, the negative going is detected ↓ again.
- The motor is rotated in the forward direction.

In case of initialization or mode error, the O/C SW2 is checked if it is ON to detect ↓ the position every time the negative going of SW2 is detected. If detection is impossible, attempts are repeated 5 times; if detection is still impossible, the protection operation is activated and the procedure is continued to ⑤.
- The motor is rotated in the forward direction for 50 ms.

⑤ The motor is rotated in the reverse direction.

⑥ Switching OFF of SW2 is confirmed.

⑦ Switching OFF of SW1 is confirmed.
- The reverse rotation of the motor is continued for 300 ms.

⑧ The motor is stopped, the O/C SW position is confirmed to check if the OPEN/CLOSE operation has been performed normally.

⑨ Operation completion status.

● Operations in case OPEN/CLOSE request occurs

① Operating ➡ Request pending
② Operating ➡ To processing step ⑦
③ Operating ➡ To processing step ⑥
④ Operating ➡ Request pending
⑤ Operating ➡ Request pending
⑥ Operating ➡ Request pending
⑦ Operating ➡ To processing step ③
⑧ Operating ➡ Request pending
⑨ End status ➡ To processing step ①

● Protection operation

*1 ... During protection monitoring of 5 seconds
*2 ... During protection monitoring of 10 seconds
If the entry of the next step is not detected in the protection monitoring period, abnormality is identified and the following processing starts.

② Operating ➡ To processing step ⑦
③ Operating ➡ To processing step ⑥
④ Operating ➡ To processing step ⑥
⑤ Operating ➡ To processing step ⑥
⑥ Operating ➡ To processing step ⑧
⑦ Operating ➡ To processing step ⑧

* The chattering period of SW1, SW2 and O/C IN is between 20 and 30 ms.

CIRCUIT DESCRIPTION

TEST MODE

1. Setting of Test Mode

(1) To enter test mode, while FM + PRESET 1 SW are pressed, press reset SW. Then all LCD are lit.

The volume, Loudness, Bass, Treble, Balance, Fader are automatically set at the position of max, OFF, center, center, center, center respectively.

(2) To enter FM adjustment mode, press source SW.

(3) To enter AM adjustment mode, press AM SW.

2. Method of test mode quit

At that time do any Power OFF or Acc OFF or pressing the Reset SW.

(※The status such as volume, loudness in test mode is memorized with Power OFF, Acc OFF, pressing the Reset SW.)

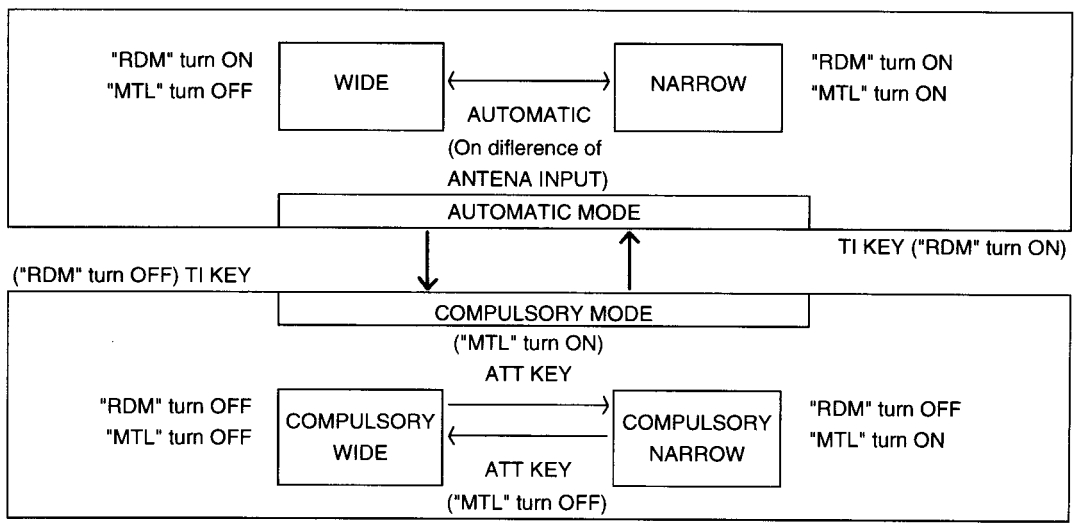
3. Setting of Compulsory Wide, Compulsory Narrow and automatic changing of Wide/Narrow

Press the SOURCE SW in TEST MODE and turn to the TUNER(FM) MODE.

Automatic mode and compulsory mode in changed in the reverse mode by pressing "T1" key for more than 2 second on compulsory mode.

The Compulsory Wide change and the Compulsory Narrow is changed in the reverse mode by pressing "ATT" key.

※ The first stage in TEST MODE is set the automatic mode of WIDE/NARROW.



4. Adjustment

(1) FM SD
Set the 18 dB antenna input. Adjust that the both indicator [1] , [2] of LCD turn ON.

(2) The AM SD need not alignment normally.
Adjust that while AM SW depressed, the indicator [1] , [2] of LCD turn ON at the 35 dB antenna input.

When while press the AM key, the indicator "DISC" of LCD turn ON.

(3) FM MUTE
Adjust that the indicator "NR" of LCD turn ON and OFF at the no modulation and 5dB antenna input.

5. Caution

(1) The key function ATT and T1 are not action in test mode.

(2) The tuner adjustment have to do before mount the cassette mechanism.
And the Azimuth and Dolby adjustment have to do before mount the retractable mechanism.

(3) The tuner adjustment have to be done before inspection of RDS FUNCTION.

(4) The tuner inspection do not have to be done within K2I inspection process. Because the disturbance from neighboring SG is happened and the MIX PAD is used.

CIRCUIT DESCRIPTION

INITIALIZE CONDITION

E Type FM 98.1 MHz AM 999 kHz BAND RANGE
FM 87.5MHz～108.0MHz
AM MW 531kHz～1611 kHz
LW 153 kHz～281 kHz

Shutter OPEN/CLOSE

Shutter is opened and closed by ACC ON/OFF.
But the Remote control open key (Remote control CA-R4A) or Compulsory open sw must be pressed so as to open shutter on compulsory close conditions.

*CAUTION

Compulsory CLOSE conditions : Shutter is closed by SOURCE KEY or REMOTE CONTROLLER on power on condition.

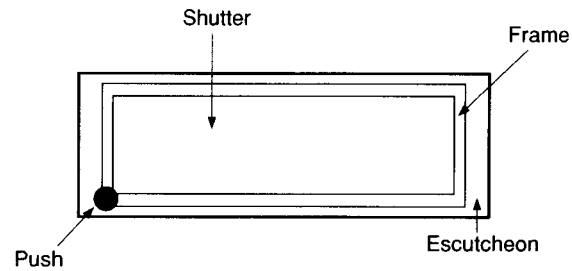
CLOSE conditions : Shutter is closed by ACC OFF on power on condition.

Compulsory OPEN SW : When shutter is closed by close key of REMOTE CONTROLLER or SOURCE KEY, shutter is compulsory opened.

When shutter is closed by ACC OFF, then no sooner ACC ON → OFF than shutter is closed.
The shutter is closed from for 5 seconds buzzer on compulsory close.

KRC-856R/RL : LCD backlight is lighting while going the busser when shutter is closed.

KRC-956R/RL : LCD backlight is lighting OFF.



	SOURCE KEY (Press more than 2 sec)	REMOTE CONTROL OPEN/CLOSE KEY	Compulsory OPEN SW	ACC ON/OFF
① POWER ON Conditions ACC : ON B. U : ON Shutter : OPEN	CLOSE Compulsory Close Conditions to ②	CLOSE Compulsory Close Conditions to ②	—	ON → OFF CLOSE Close Conditions to ③
② Compulsory Close Conditions ACC : ON B. U : ON Shutter : CLOSE	—	OPEN To POWER ON Conditions	OPEN To POWER ON Conditions	ON → OFF → ON Close Conditions
③ Close Conditions ACC : OFF B. U : ON Shutter : CLOSE	—	—	—	OFF → ON OPEN POWER ON Conditions to ①

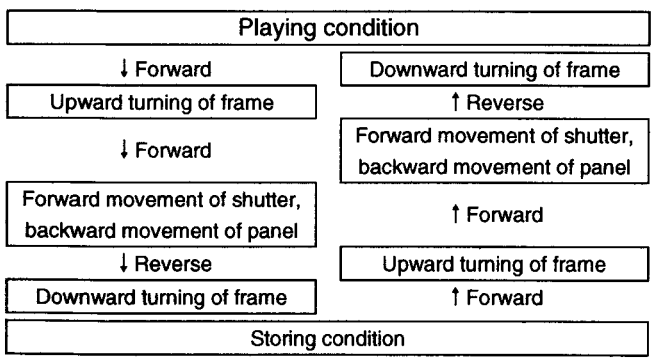
※ When ACC, BU ON at shutter open and reset, shutter is closed and opened.
Also when push the reset SW at POWER ON Conditions, shutter is closed and opened.

MECHANISM DESCRIPTION

SRM (STEALTH RETRACTABLE MECHANISM)

Operating Principle

With the principle of the panel storing operation of this receiver, when the frame turns toward the by about 90 degrees, the shutter inside the receiver set moves forward into the frame and the panel moves backward at the same time.
Later, together with the shutter which has moved inside the frame, the frame turns downward by 90 degrees so the panel is stored inside the receiver set.
The operation from the storing condition to the playing condition of the receiver is opposite to the panel storing operation; the frame turns toward the front by about 90 degrees together with the shutter inside it. When the shutter is stored inside the set, the panel moves forward, the frame turns downward by about 90 degrees and the receiver enters the playing condition.



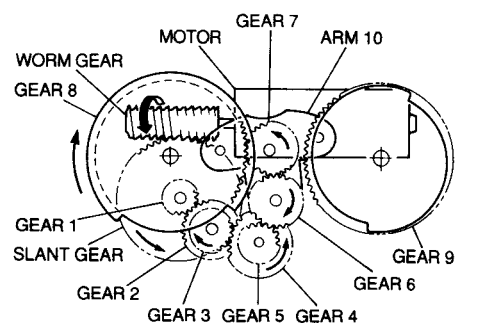
Forward ... Motor rotation in forward direction
Reverse ... Motor rotation in reverse direction

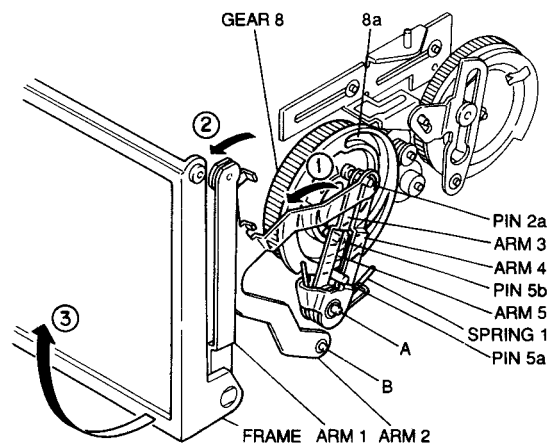
Operation from playing condition to storing condition Upward turning of frame

Upward turning of frame

The motor starts forward rotation when the power is switched OFF. Acc is switched OFF or the OPEN/CLOSE key of the remote control unit is pressed. The motor rotation is transmitted from Slant gear → Gear 1 → Gear 2 → Gear 3 → Gear 4 → Gear 5 → Gear 6 → Gear 7 → Gear 8, and Gear 8 rotates in the clockwise direction.

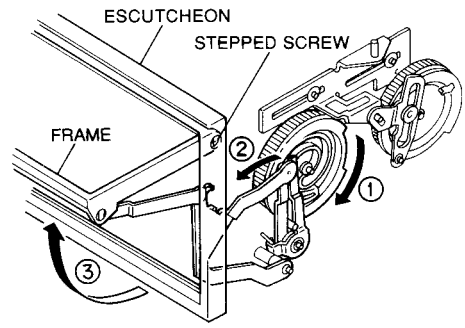
When Arm 5 inside Cam groove 8a of Gear 8 is rotated around Shaft A by Pin 5b on the back side of Arm 5 (①), Pin 5a on the front side of Arm 5 rotates Arm 3 (①).
As Arm 3 is coupled with Am 5 by Spring 1, Arm 4 is also rotated by Arm 3 (①). This makes Arm 4 push Pin 2a of Arm 2, and Arm 2 rotates around Shaft B (②).
And the force of Arm 2 pushes the frame via Arm 1.





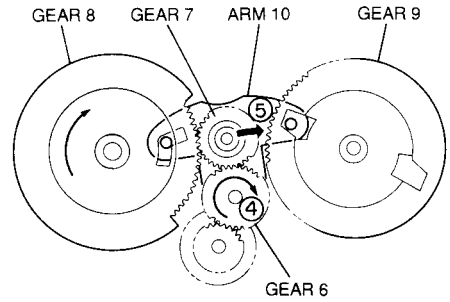
MECHANISM DESCRIPTION

The frame is turned upward by about 90 degrees centered around the stepped screw attached on the escutcheon.
After the frame starts to turn (③), it contacts the escutcheon and stops turning.
Cam groove 8a of Gear 8 has an overstroke so that the frame is pushed upward by the force of Spring 1.



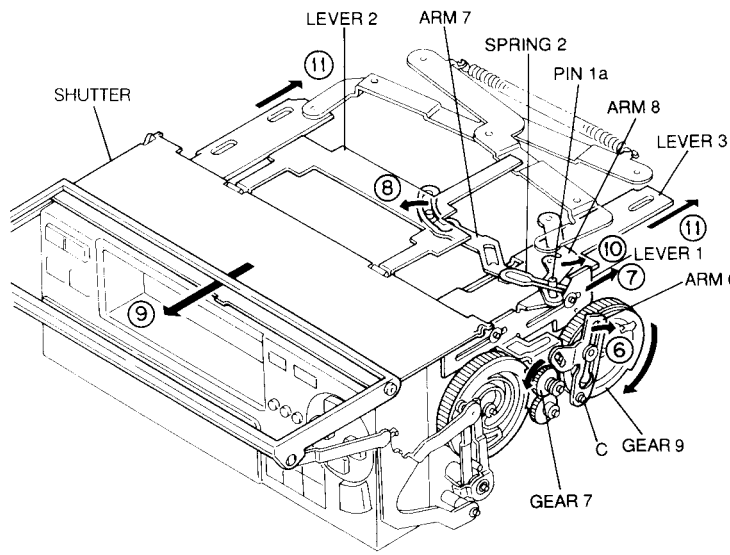
Rotation of Arm 10

Arm 10 is subjected to the friction torque from the force of the spring above Gear 7, and the rotation of Gear 6 (④) causes Arm 10 a turning force in the same direction as the rotation (⑤).
The turning force applied to Arm 10 is in the direction to move it toward Gear 9, but a guide groove restricting the action of Arm 10 is provided on the back side of Gear 8. And Gear 7 is meshed with Gear 8.
When Gear 8 has been rotated by Gear 7 until the restriction cancellation position, Arm 10 starts to rotate (⑤), and Gear 7 transmits force from Gear 8 to Gear 9.



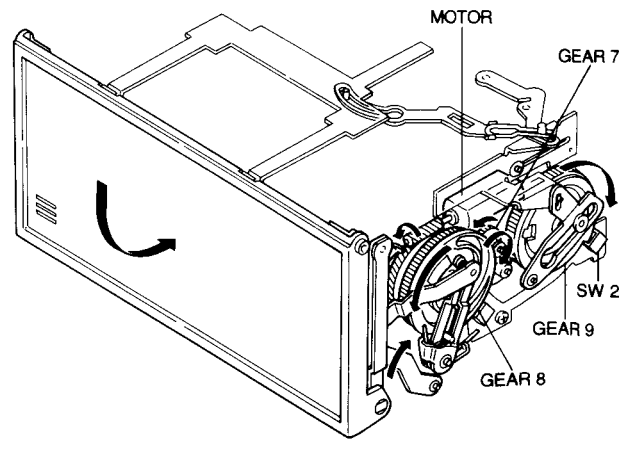
Forward movement of shutter and backward movement of control panel

When Gear 9 is rotated clockwise by the rotation of Gear 7, Arm 6 rotates around Shaft C (⑥).
The rotation of Arm 6 (⑥) causes Lever 1 to move backward (⑦).
When Pin 1a of Lever 1 moves backward, it pushes the right side of Spring 2 attached on Arm 7, thereby rotating Arm 7 (⑧) and by means of Lever 2 moving the shutter forward (⑨).
When Pin 1a of Lever 1 moves backward, it causes Arm 8 to rotate (⑩) and Lever 3 to move backward (⑪), thereby moving the control panel which is fixed to it also backward.



Downward turning of frame

The operations above take place in the period Gear 9 rotates by a half turn. SW2 is switched from ON to OFF in this period, and it is switched again to ON after the completion of the half turn.
When SW2 is ON, the microcomputers issues an instruction so the motor starts reverse rotation in 0.5 ms after it.
As a result, Gear 7 rotates in the reverse direction and generates an opposite friction torque, which rotates Arm 10 toward Gear 8 so Gear 7 transmits force from Gear 9 to Gear 8.
After this, both the arms and gears act in the opposite directions to the previous operations, and the frame and the shutter inside it together turn downward.



MECHANISM DESCRIPTION

Operations from storing condition to playing condition

Upward turning of frame

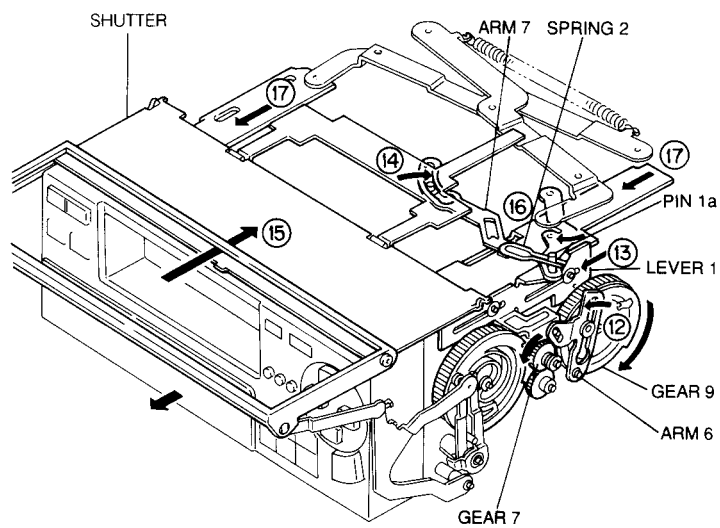
The motor starts forward rotation when the Acc is switched OFF, the OPEN/CLOSE key of the remote control unit is pressed or the bottom left pat of the shutter is pushed.
The subsequent operations are the same as the frame opening operations described in the previous section, and the result is the upward turning of the frame by about 90.

Rotation of Arm 10

Same operations as described in the pervious section.

Backward movement of shutter and forward movement of control panel

When Gear 9 is rotated clockwise by the rotation of Gear 7, Arm 6 rotates around Shaft C (⑫).
The rotation of Arm 6 (⑫) causes Lever 1 to move backward (⑬).
When Pin 1a of Lever 1 moves forward, it pushes the left side of Spring 2 attached on Arm 7, thereby rotating Arm 7 (⑭)and by means of Lever 2 moving the shutter backward (⑮).
When Pin 1a of Lever 1 moves forward, it causes Arm 8 to rotate (⑯) and Lever 3 to move forward (⑰), thereby moving the control panel which is fixed to it also forward.

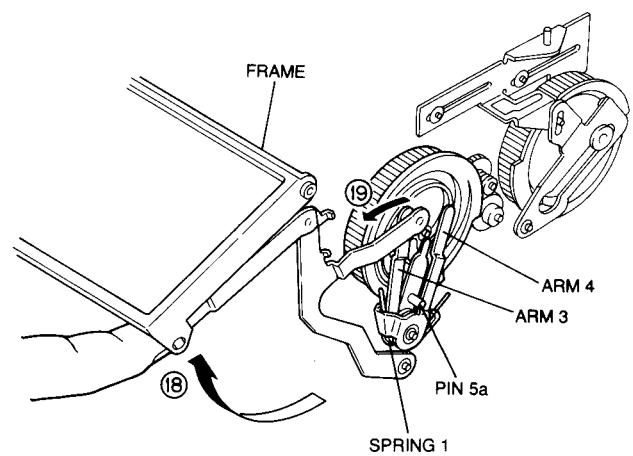


Downward turning of frame

Same operations as described in the pervious section.

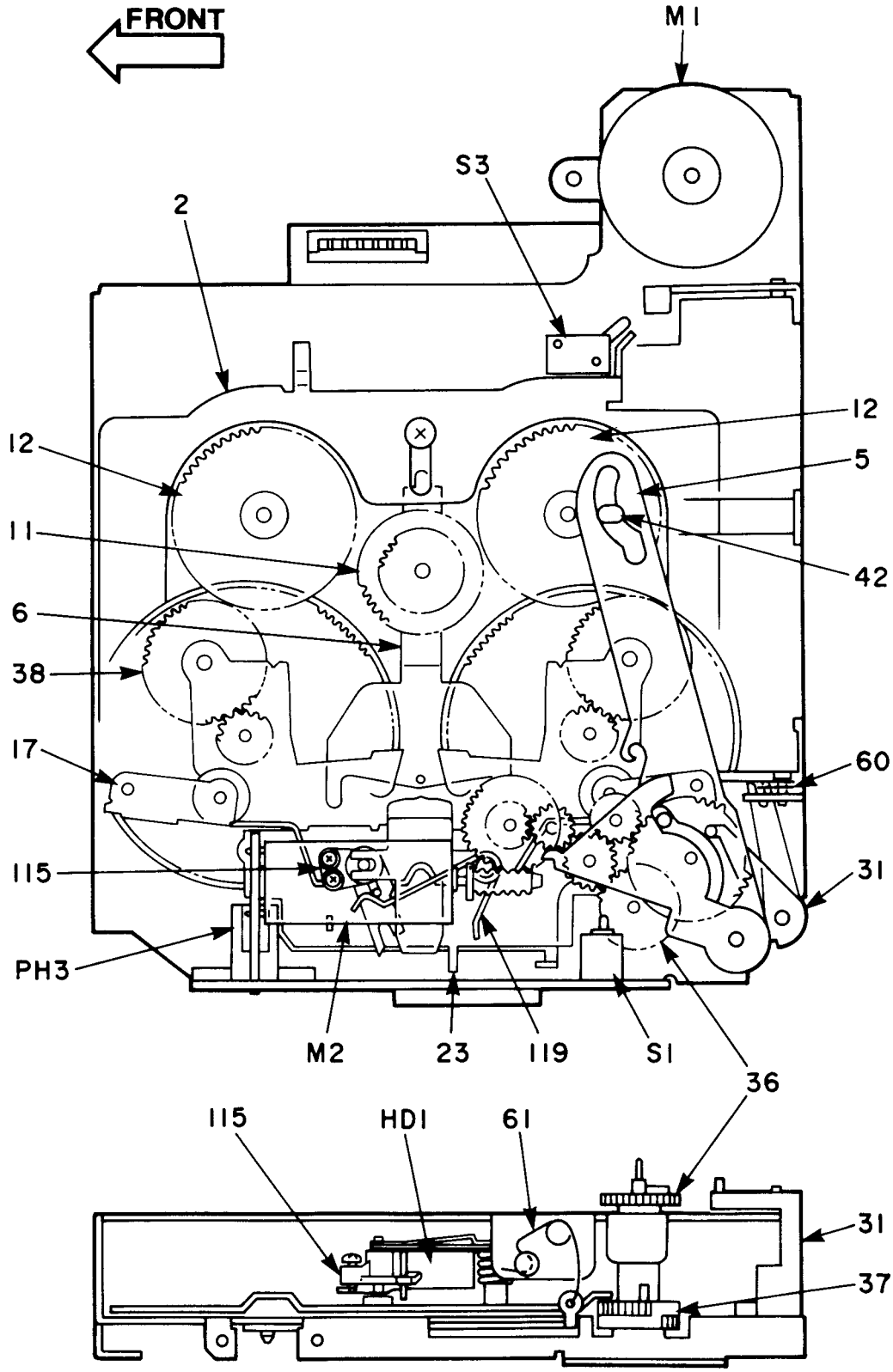
Protection of mechanism

When the frame in the storing condition is forced to turn by pushing it upward with a fingertip, etc. (⑱), the force is applied to the direction which rotates Arm 3 (⑲).
However, as Arm 4 is fixed by Pin 5a, it does not rotate and the force is absorbed by Spring 1.
Similarly, in case the normal turning of the frame in the upward or downward direction is obstructed by any reason, the force is absorbed by Spring 1.



MECHANISM OPERATION DESCRIPTION

CASSETTE MECHANISM

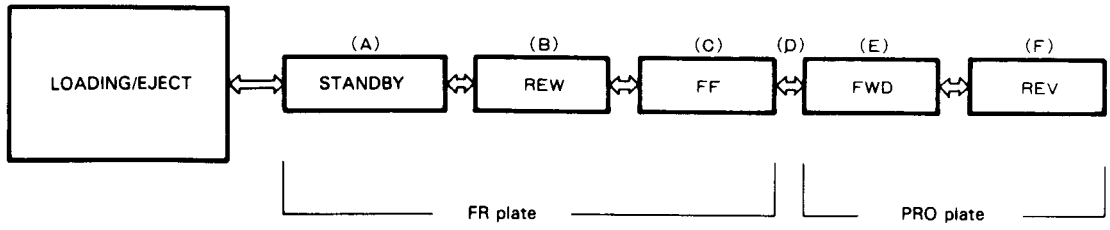


KRC-856R/RL

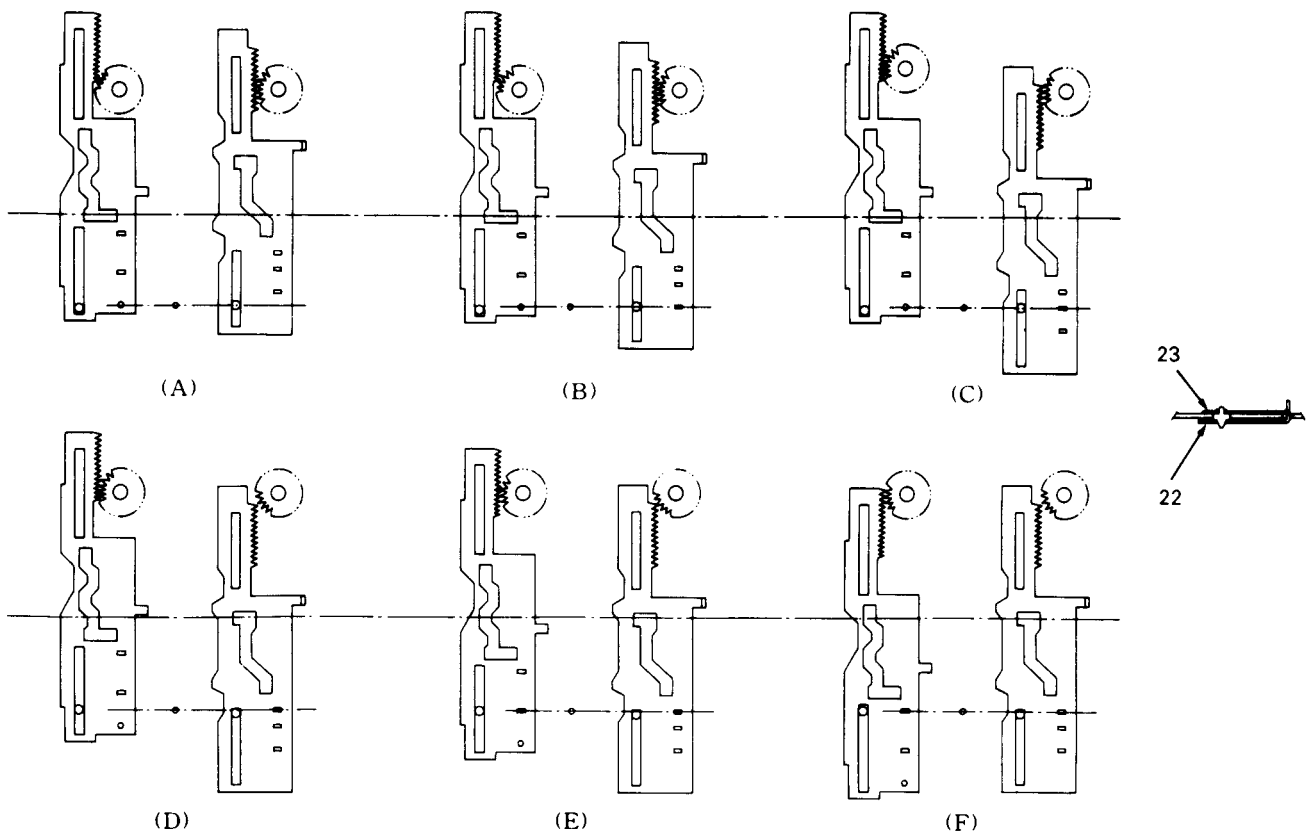
MECHANISM OPERATION DESCRIPTION

Mechanism Operation Modes

Each mode undergoes the following sequence:



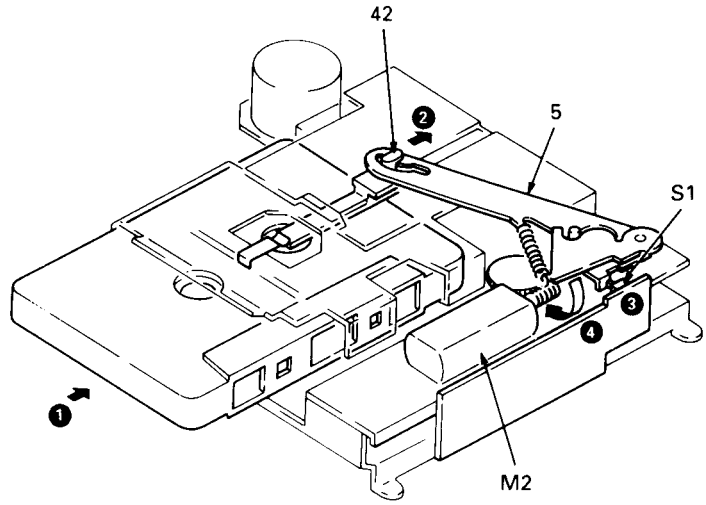
Each mode is determined by the positions of the FR and PRO plates.



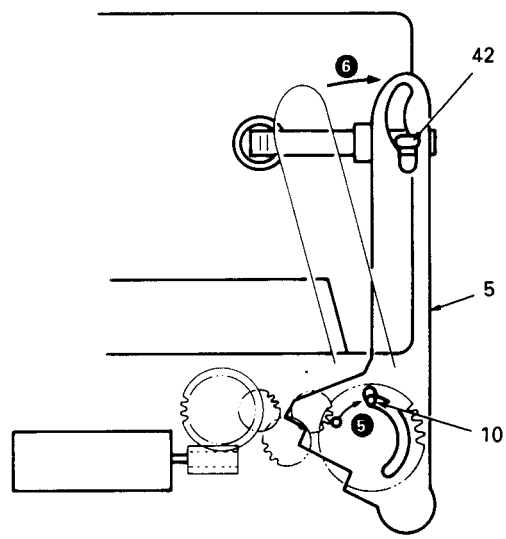
MECHANISM OPERATION DESCRIPTION

1. Loading

When the cassette tape is pushed in (❶), the loading arm (5) moves via the pack slider (42)...(❷). Thus, the pack-in switch (S1) detects this...(❸), and the sub motor (M2) makes normal rotation...(❹).

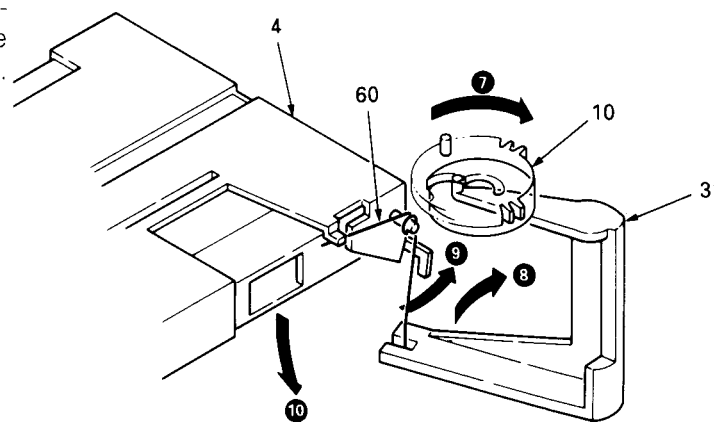


The rotation of the sub motor (M2) causes the load gear (10) to rotate by way of the idle gear...(❺). The load gear (10) provides the rotation of the loading arm (5) by its pin...(❻), to load in the cassette tape.



2. PACK DOWN

When the load gear (10) further rotates (❼), the action arm (31) also rotates (❽) to lower the action plate (4)...(❿), by way of the action plate spring (60)...(❾).

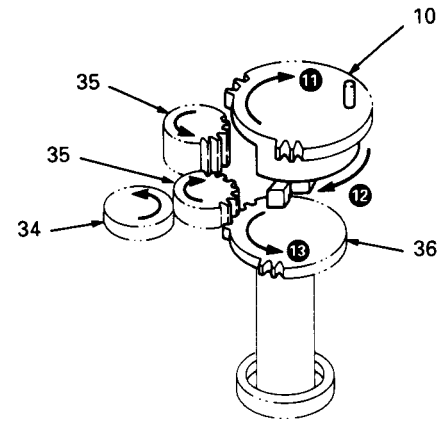


MECHANISM OPERATION DESCRIPTION

3. Change from Load Gear to Mode Gear

When the load gear (10) further more rotates (⓫), the boss under it pushes against the boss of the mode gear (36)...(⓬), so that the mode gear (36) rotates after the shift of its non-toothed section...(⓭).

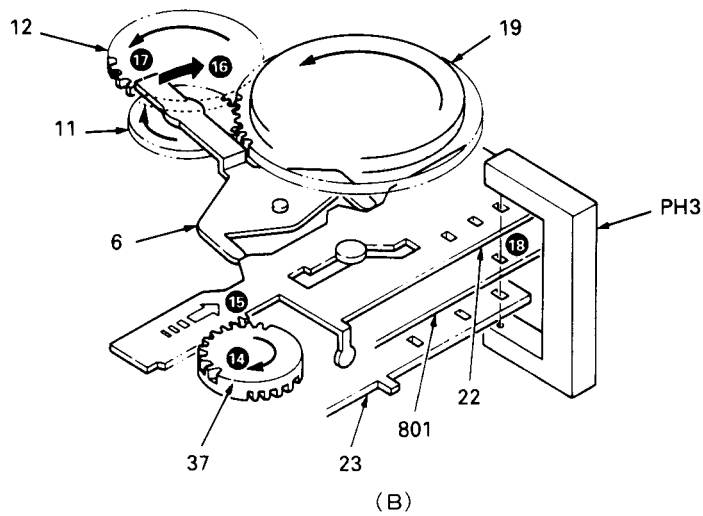
Thus, the load gear (10) stops rotation on account of its non-toothed section coming.



4. REW

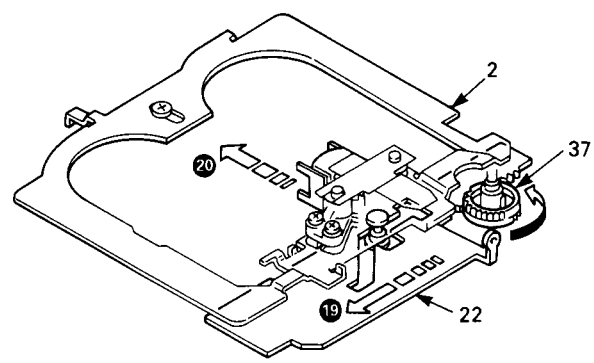
When the mode gear (37) rotates (⓮), the FR plate (22) under it moves (⓯). The cam of the FR plate (22) works to rotate the FR arm (6)...(⓰).

Further, the FR arm (6) moves to transmit the rotation of the flywheel (19) to the reel gear (12)...(⓱). At this time, a slot (REW hole) of the FR plate (22) is detected by the mode sensor (PH3)...(⓲), to stop the rotation of the sub motor.



(B)

For REW or FF, due to the groove of the FR plate (22)...(⓳), the head plate (2) advances (⓴) so that the head moves to a position at which T-ADV is feasible.

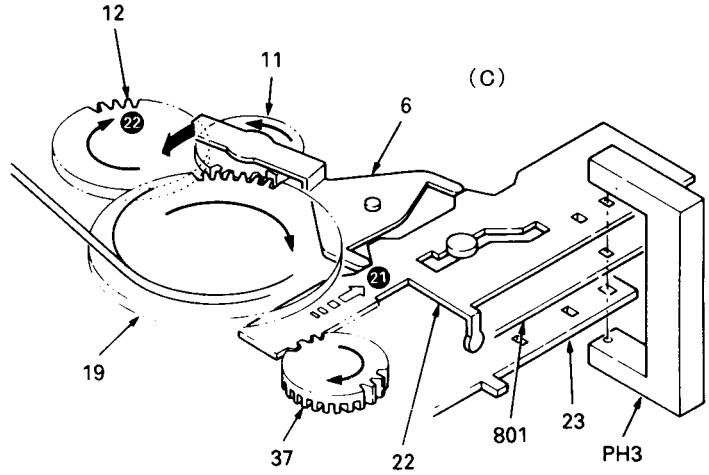


MECHANISM OPERATION DESCRIPTION

5. FF

When the sub motor further rotates, the cam of the FR plate (22) moves (㉑) so that the FR arm (6) is rotated in the reverse direction...(㉒).

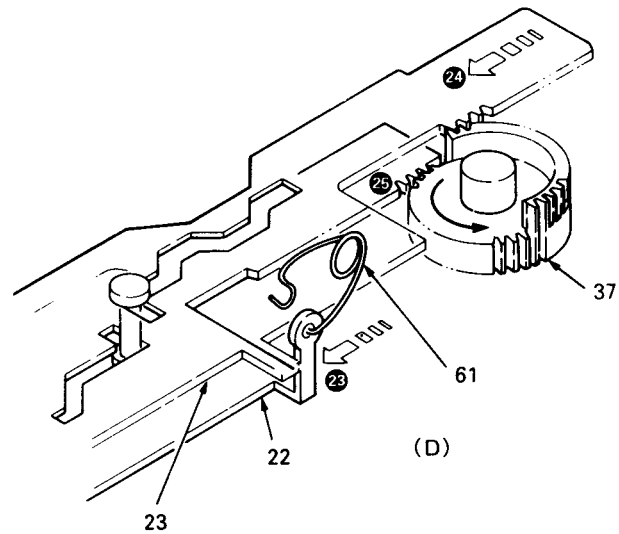
Thus, a slot (FF hole) of the FR plate (22) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



6. Change from FR Plate to PRO Plate

When the sub motor further more rotates, the knob of the FR plate (22) hits against the knob of the PRO plate (23)...(㉓), so that the PRO plate (23) moves.

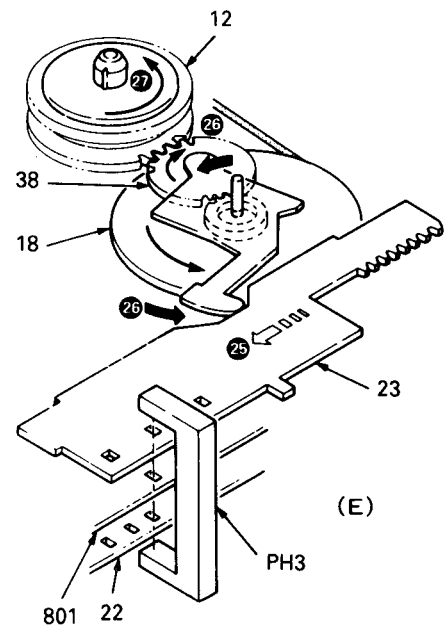
Thus, the rack of the PRO plate (23) enters into engagement with the mode gear...(㉔). Then, the rack of the FR plate (22) is disengaged from the mode gear because of its non-toothed section coming...(㉕).
The mode plate spring (61) assists in this operation.



7. FWD PLAY

When the PRO plate (23) moves (㉕), the take-up plate F is rotated by the cam of the PRO plate (23) and the take-up gear (38) engages with the reel ass'y (12)...(㉖). The rotation of the flywheel (18) is transmitted to the reel ass'y (12) by way of the take-up gear (38)...(㉗).

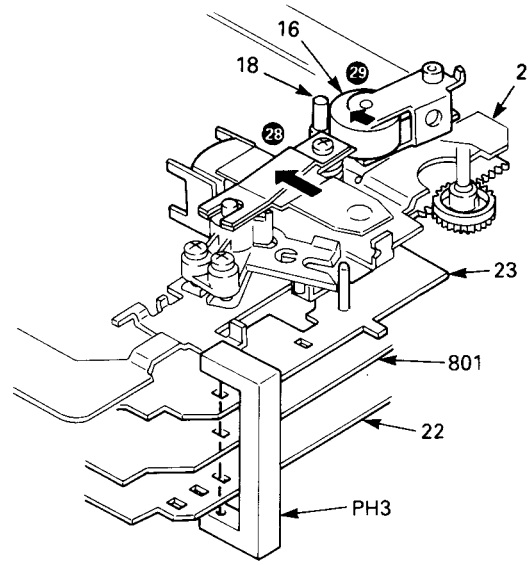
Thus, a slot (FWD hole) of the PRO plate (23) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



KRC-856R/RL

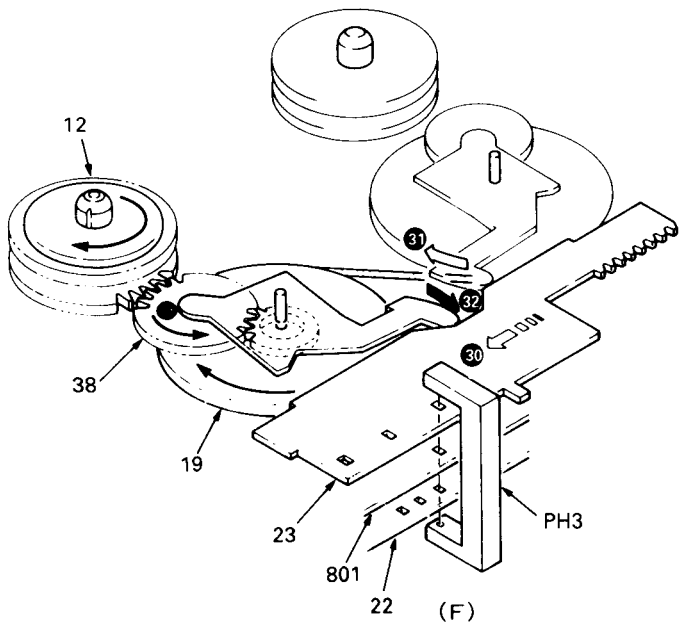
MECHANISM OPERATION DESCRIPTION

The groove of PRO plate (23) serves to advance the head plate (2)...(㉘), to move the head and the pinch roller (16) to their FWD PLAY position. The pinch roller (16) is contacted to the capstan (18) by pressure due to the shift to the take-up plate and the force of the pinch roller spring...(㉙).



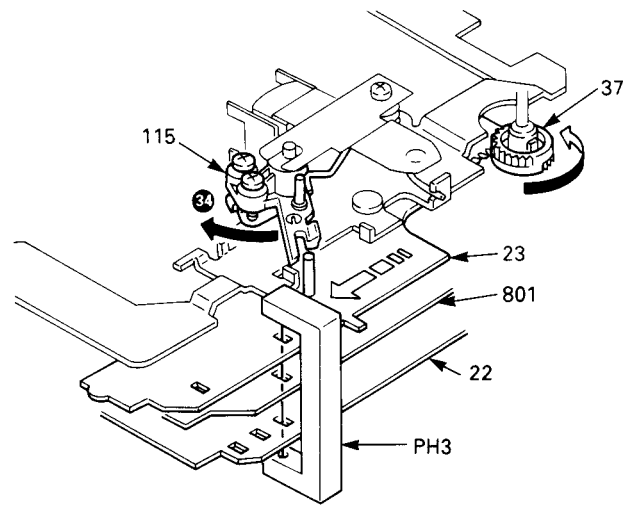
8. REV PLAY

When the PRO plate.(23) further moves, the take-up plate F returns by the cam of the PRO plate (23)...(㉛), and the take-up plate R rotates (㉜). The rotation of the flywheel is transmitted to the reel ass'y (12) by way of the take-up gear (38)...(㉝).



The PRO plate (23) further moves, the azimuth arm (115) turns by the pin of PRO plate (㉞).

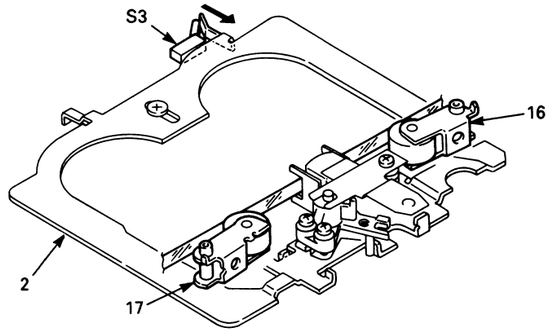
Thus, a slot (REV hole) of the PRO plate (23) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



MECHANISM OPERATION DESCRIPTION

9. STANDBY (PAUSE)

From a given mode, when the head plate (2) regresses due to the reverse rotation of the sub motor rotates, when the pause switches (S3) acts ("L" to "H") to stop the rotation of the sub motor, the pause mode is entered.



(A)

10. EJECT

When the sub motor is reversely rotated, an operation reverse to the loading operation is performed to eject the cassette tape.

KRC-856R/RL

ADJUSTMENT

Set the controls and switches as follows.

BALANCE	:center position	LOUD	:OFF	T • ADV	:OFF
BASS	:center position	LOCAL	:OFF	AUTO	:OFF
FADER	:center position	DOLBY NR	:OFF		
TREBLE	:center position				

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dBμ(ANT input)	Connect a DC voltmeter to TP2	FM 98.1MHz	T1	0V	(a)
2	SEPARATION (WIDE)	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector:L or R 60dBμ(ANT input)	(B)	FM 98.1MHz	VR6 (W-SEP)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC (WIDE)	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector:L or R 35dBμ(ANT input)	(B)	FM 98.1MHz	VR4 (ANRC)	Separation 10dB	
	After 3 adjustment, measure DC voltage at 35dBμ at TP3 and record. → V35						(b)
4	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ±40kHz dev 60dBμ→No input	(B)	FM 98.1MHz	VR9 (S-MUTE)	Output Noise level -25dBμ (When not add sny signal to ANT terminal)	
5	MUTE SENSITIVITY LEVEL	(A) 98.1MHz 0dev 5dBμ(ANT input)	–	FM 98.1MHz	VR3 (MUTE)	Adjust until "NR" of LCD turns from OFF to ON.	
6	SEEK STOP SENSITIVITY LEVEL	(A) 98.1MHz 0 dev 20dBμ(ANT input)	–	FM 98.1MHz	VR5 (S-METER)	Adjust so that the "1 2" indicator in the LCD are lit. Only "2" is lit : Too low Only "1" is lit : Too high	
7	NARROW GAIN	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector:L or R 35dBμ(ANT input)	Connect a DC voltmeter to TP3	FM 98.1MHz	VR7 (N-GAIN)	Same as V35 measured in Wide.	(b)
8	SEPARATION (NARROW)	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6.0kHz dev Selector:L or R 60dBμ(ANT input)	(B)	FM 98.1MHz	VR8 (N-SEP)	Adjust it so that the crosstalk from L to R and R to L become minimum	
MW SECTION							
(1)	SEEK STOP SENSITIVITY LEVEL	(D) 999kHz 0% mod 35dBμ(ANT input)	–	MW 999kHz	AM SD VR (F/E)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L ch / R ch or FWD / RVS becomes maximum	(c)
[2]	PLAYBACK LEVEL	MTT-150	Connect an AC voltmeter to TP1	TAPE PLAY	VR1 : Lch VR2 : Rch	300mV	(d)

*Test mode : Press the RESET key while holding the FM and 1 keys depressed. (All of the LCD elements light.)
Then, press the SOURCE key.
To quit : Power OFF.

ABGLEICH

Die Regler und Knöpfe wire folgt einstellen.

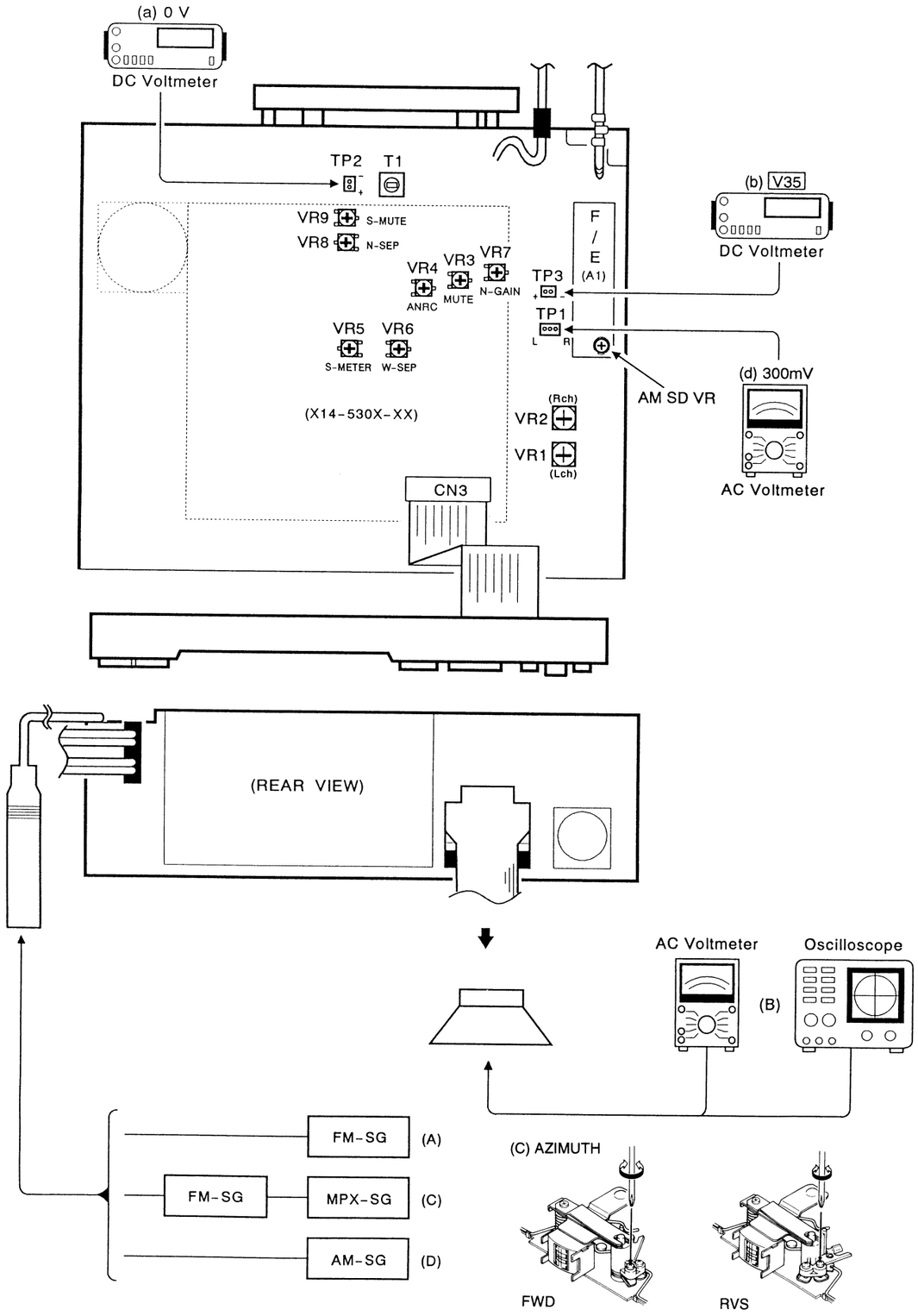
BALANCE	:Mittelage	LOUD	:OFF	T • ADV	:OFF
BASS	:Mittelage	LOCAL	:OFF	AUTO	:OFF
FADER	:Mittelage	DOLBY NR	:OFF		
TREBLE	:Mittelage				

NR	GEGENSTAND	EINGANGS EINSTELLUNG	AUSGANGS EINSTELLUNG	TUNER (RECEIVER) EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FUR	ABB.
UKW-ABTEILUNG							
1	DISKRI-MINATOR	(A) 98.1MHz 0 Hub 60dBμ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP2 anschließen	FM 98.1MHz	T1	0V	(a)
2	STEREO KANAL TRENNUNG (Weit)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 60dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR6 (W-SEP)	So einstellen, daß das Ubersprechen von L auf R und von R auf L minimal wird.	
3	ANRC (Weit)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 35dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR4 (ANRC)	Trennung 10dB	
	Nach der 3 Einstellung die Gleichspannung bei 35 dBμ an TP3 messen. → V35						(b)
4	Weiche Dämpfung PEGEL	(A) 98.1MHz 1kHZ, ±40kHz Hub 60dBμ →No Eingang	(B)	FM 98.1MHz	VR9 (S-MUTE)	Ausgangsrauschpeqel -25dB (Wenn nicht, ein beliebiges Signal an den ANT-Anschlußanlegen)	
5	Dämpfung-sempfindlichkeit PEGEL	(A) 98.1MHz 0 Hub 5dBμ (ANT-Eingang)	–	FM 98.1MHz	VR3 (MUTE)	Einstellen, bis "NR" des LCD von OFF auf ON schaltet.	
6	SUCHEN HALT PEGEL	(A) 98.1MHz 0 Hub 20dBμ (ANT-Eingang)	–	FM 98.1MHz	VR5 (S-METER)	So einstellen, daß die Anzeige " 1 2 " an der LCD leuchtet. Nur " 2 " leuchtet : zu niedrig Nur " 1 " leuchtet : zu hoch	
7	SCHMAL-VERSTÄRKUNG	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 35dBμ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP3 anschließen	FM 98.1MHz	VR7 (N-GAIN)	Gleich wie V35 gemessen in Weit.	(b)
8	STEREO KANAL TRENNUNG (Schmal)	(C) 98.1MHz 1kHZ, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler : L or R 60dBμ (ANT-Eingang)	(B)	FM 98.1MHz	VR8 (N-SEP)	So einstellen, daß das Ubersprechen von L auf R und von R auf L minimal wird.	
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 999kHz 0% mod 35dBμ (ANT-Eingang)	–	MW 999kHz	AM SD VR (F/E)	HALT	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Bandwiedergabe	Kopfazimuts-chraube	So einstellen, daß das Azimuth fiir jeweils L-CH/R-CH oder FWD/RVS maximal wird.	(c)
[2]	WIDERGABE PEGEL	MTT-150	Einen wechsel-spannungsmesser zwischen zu TP1 anschließen.	Bandwiedergabe	VR1(L) VR2(R)	300mV	(d)

*Testmodus : Die Taste während die Tasten FM und 1 gedrückt gehalten werden.
(Alle Elemente des LCD leuchten.)
Dann die Taste RESET drücken.

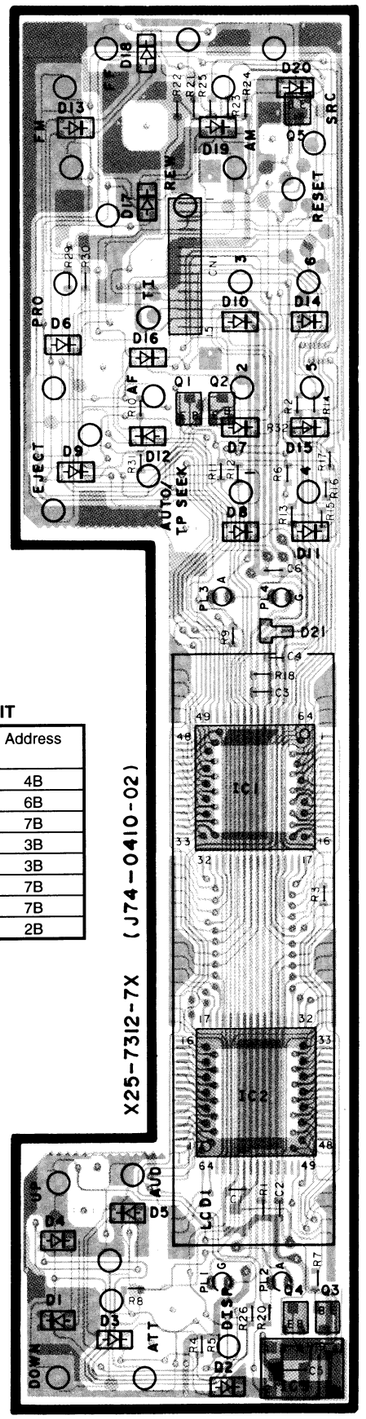
KRC-856R/RL

ADJUSTMENT



PC BOARD (Component side view)

SWITCH UNIT (X25-7312-73)

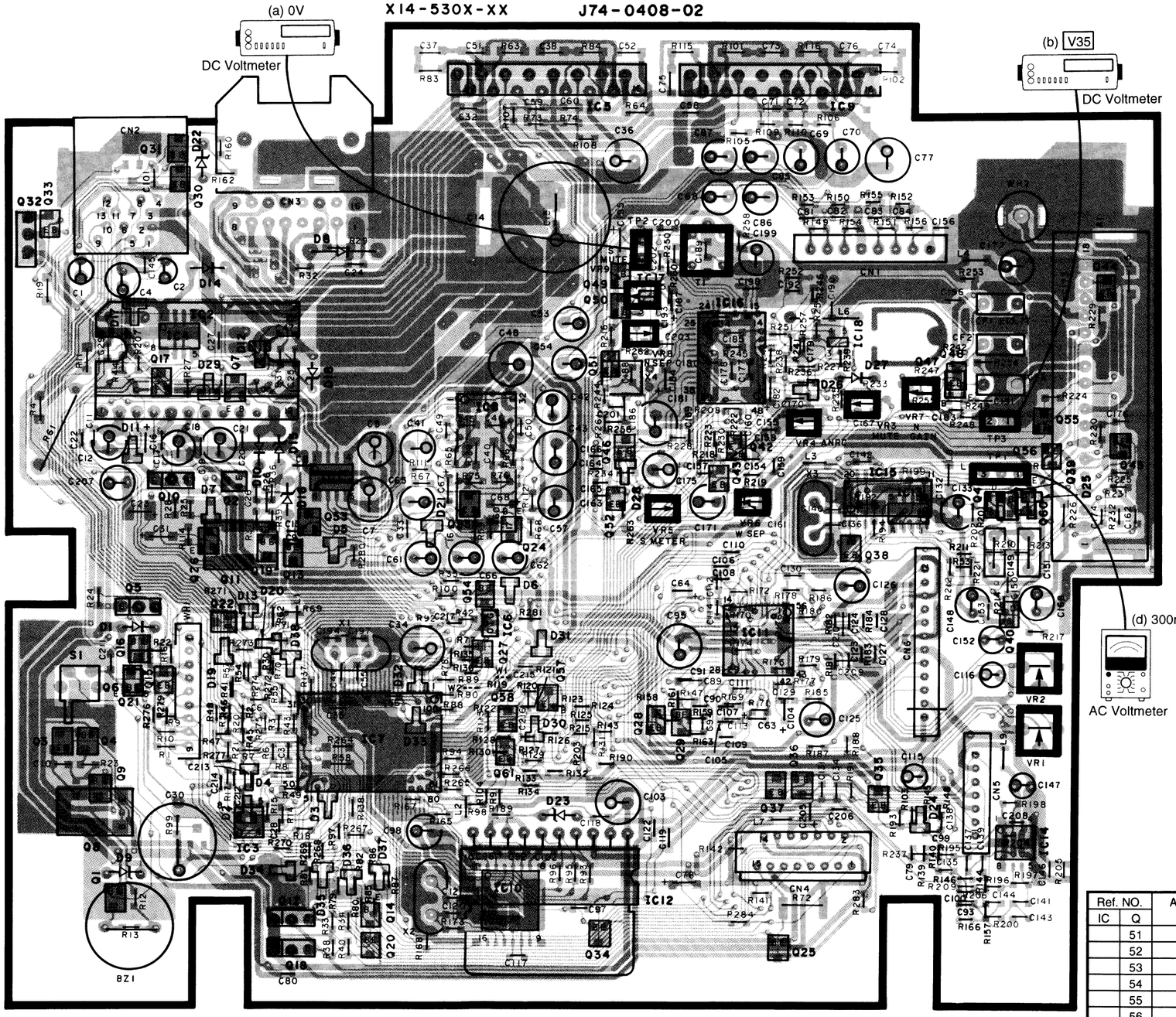


SWITCH UNIT

Ref. NO.		Address
IC	Q	
1		4B
2		6B
3		7B
	1	3B
	2	3B
	3	7B
	4	7B
	5	2B

SYNTHESIZER UNIT(X14-5302-XX) -76 : KRC-856R, -77 : KRC-856RL)

X14-530X-XX J74-0408-02



Ref. NO.		Address
IC	Q	
	51	3F
	52	4F
	53	4D
	54	4E
	55	3H
	56	4H
	57	5F
	58	5E
	60	4H
	61	5E

SYNTHESIZER UNIT

Ref. NO.		Address
IC	Q	
1		4E
2		3D
3		6D
4		3D
5		2F
6		5E
7		5E
8		4E
9		2G
10		6E
11		5G
12		6F
13		4H
14		6H
15		4H
16		3G
17		3F
18		3G
	1	6C
	2	4D
	3	5C
	4	5C
	5	4D
	6	5D
	7	3D
	8	6C
	9	5C
	10	4D
	11	5D
	12	6D
	13	4D
	14	6E
	15	5D
	16	5D
	17	3D
	18	6D
	19	4D
	20	6E
	21	5D
	22	5D
	23	4E
	24	4F
	25	6G
	26	4D
	27	5E
	28	5F
	29	5F
	30	2D
	31	2D
	32	2C
	33	2C
	34	6F
	35	5G
	36	5G
	37	5G
	38	4G
	39	4H
	40	5H
	41	4H
	42	4G
	43	4G
	44	3I
	45	4H
	46	4F
	47	3H
	48	3H
	49	3F
	50	3F

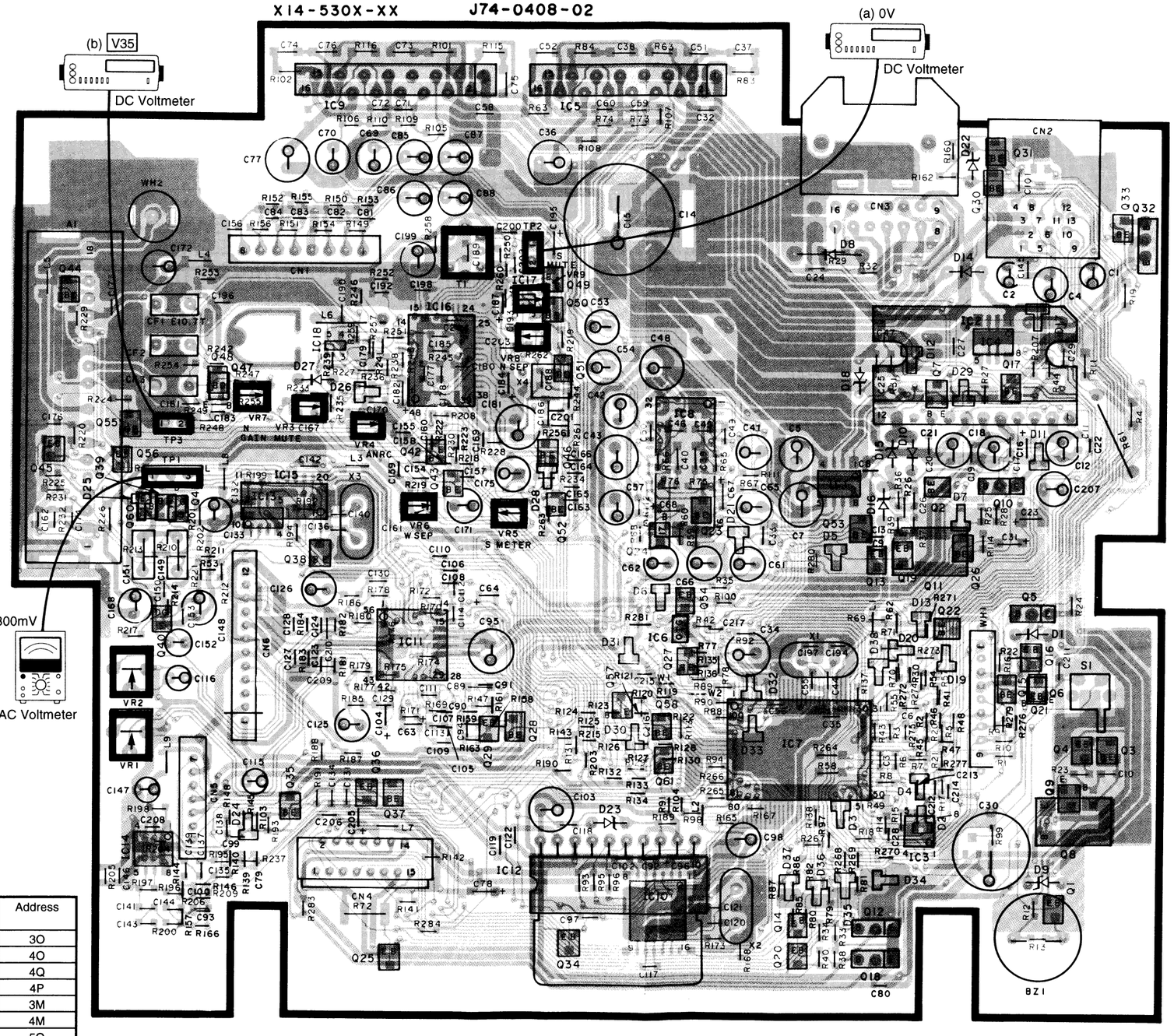
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

SYNTHESIZER UNIT

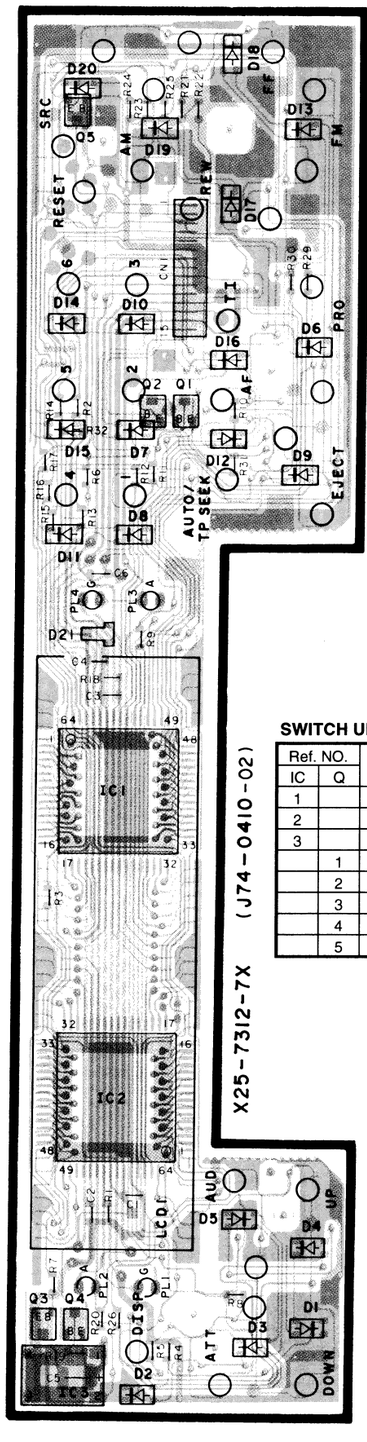
Ref. NO. IC	Ref. NO. Q	Address
1		4P
2		3Q
3		6Q
4		3Q
5		2O
6		5P
7		5P
8		4P
9		2N
10		6P
11		5N
12		6O
13		4M
14		6M
15		4M
16		3N
17		3O
18		3N
	1	6R
	2	4Q
	3	5R
	4	5R
	5	5Q
	6	5Q
	7	3Q
	8	6R
	9	5R
	10	4Q
	11	4Q
	12	6Q
	13	4Q
	14	6P
	15	5Q
	16	5Q
	17	3Q
	18	6Q
	19	4Q
	20	6P
	21	5Q
	22	5Q
	23	4P
	24	4O
	25	6N
	26	4Q
	27	5P
	28	5O
	29	5O
	30	2Q
	31	2Q
	32	2R
	33	2R
	34	6O
	35	6M
	36	5N
	37	5N
	38	4N
	39	4M
	40	5M
	41	4M
	42	4N
	43	4N
	44	3L
	45	4L
	46	4O
	47	3M
	48	3M
	49	3O
	50	3O

SYNTHESIZER UNIT(X14-5302-XX) -76 : KRC-856R, -77 : KRC-856RL)



Ref. NO. IC	Ref. NO. Q	Address
	51	3O
	52	4O
	53	4Q
	54	4P
	55	3M
	56	4M
	57	5O
	58	5O
	60	4M
	61	5O

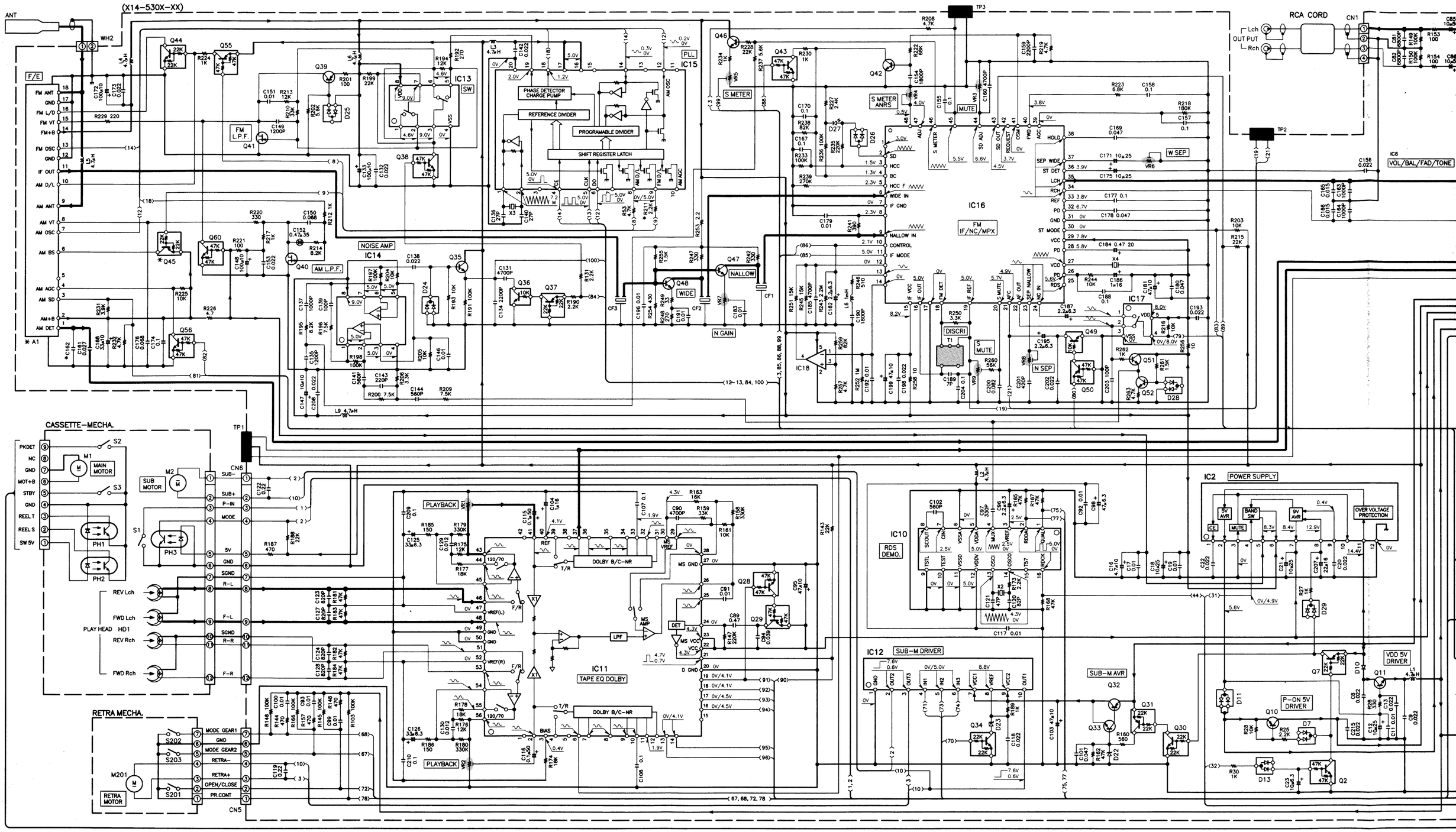
SWITCH UNIT (X25-7312-73)



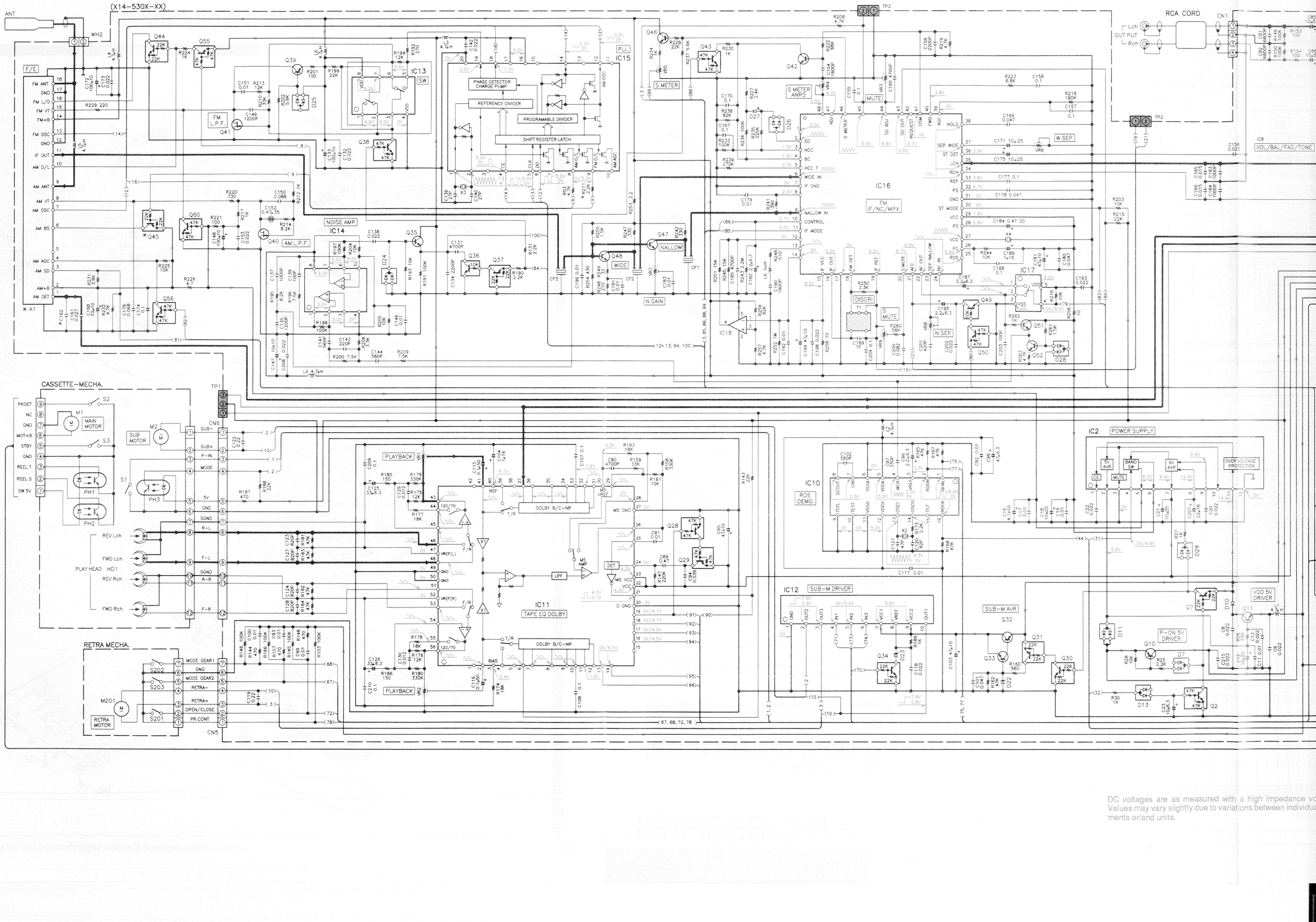
SWITCH UNIT

Ref. NO. IC	Ref. NO. Q	Address
1		4S
2		6S
3		7S
	1	3S
	2	3S
	3	7S
	4	7S
	5	2S

Refer to the schematic diagram for the values of resistors and capacitors.



DC voltages are as measured with a high impedance vo
Values may vary slightly due to variations between individua
ments or/and units.

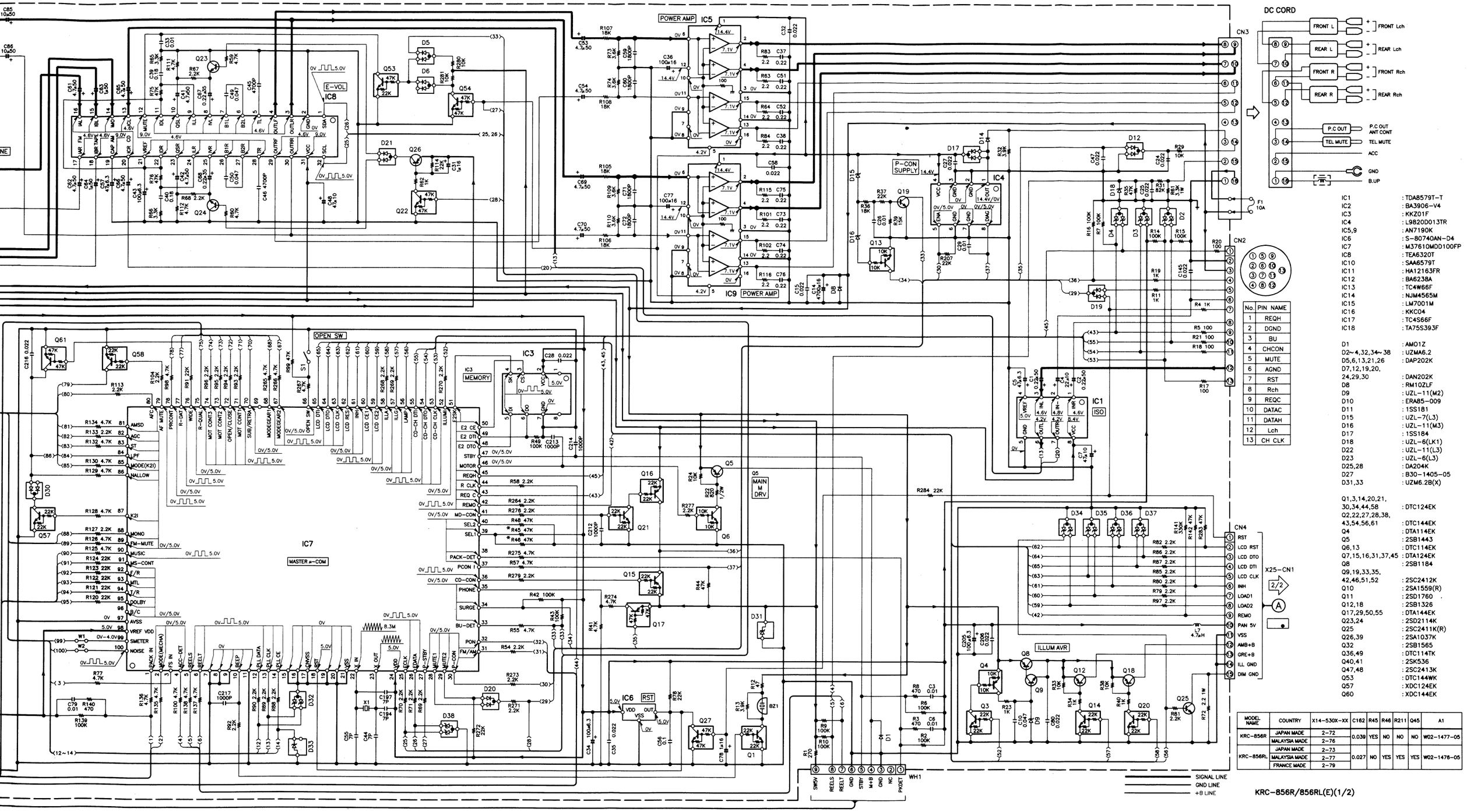

(X14-530X-XX)
ANT
WH2
F/E
FM ANT
GND
FM L/D
FM VT
FM+B
FM OSC
GND
IF OUT
AM D/L
AM ANT
AM VT
AM OSC
AM BS
AM AGC
AM SD
AM+B
AM DET
FM L.P.F.
Q41
IC13
SW
PLL
IC15
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
PROGRAMABLE DIVIDER
SHIFT REGISTER LATCH
S.METER
S METER ANRS
MUTE
IC16
FM IF/NC/MPX
RCA CORD
CN1
OUT PUT
Lch
Rch
TP2
TP3
IC8
VOL/BAL/FAD/TONE
W SEP
N SEP
P-ON 5V DRIVER
VDD 5V DRIVER
NOISE AMP
IC14
AM L.P.F.
NALLOW
WIDE
N GAIN
S MUTE
DISCRI
IC17
IC18
CASSETTE-MECHA.
MAIN MOTOR
SUB MOTOR
RETRA MECHA.
RETRA MOTOR
PLAY HEAD HD1
REV Lch
FWD Lch
REV Rch
FWD Rch
PLAYBACK
DOLBY B/C-NR
IC11
TAPE EQ DOLBY
LPF
IC10
RDS DEMO.
IC12
SUB-M DRIVER
SUB-M AVR
IC2
POWER SUPPLY
5V AVR
9V AVR
BAND SW
OVER VOLTAGE PROTECTION
DC voltages are as measured with a high impedance vo
Values may vary slightly due to variations between individua
ments or/and units.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace
nents only with manufacturer's recomm
parts list). ⚠ indicates safety critical
duce the risk of electric shock, leakage
measurements shall be carried out (expo
ably insulated from the supply circuit) be
returned to the customer.



No.	PIN NAME
1	REQH
2	DGND
3	BU
4	CHCON
5	MUTE
6	AGND
7	RST
8	Rch
9	REQC
10	DATAC
11	DATAH
12	Lch
13	CH CLK

IC1	: TDA8579T-T
IC2	: BA3906-V4
IC3	: KKZ01F
IC4	: L9820D013TR
IC5,9	: AN7190K
IC6	: S-80740AN-D4
IC7	: M37610MDD100FP
IC8	: TEA6320T
IC10	: SAA6579T
IC11	: HA12163FR
IC12	: BA6238A
IC13	: TC4W66F
IC14	: NJM4565M
IC15	: LM7001M
IC16	: KKC04
IC17	: TC4S66F
IC18	: TA75S393F
D1	: AM01Z
D2~4,32,34~38	: UZMA6.2
D5,6,13,21,26	: DAP202K
D7,12,19,20, 24,29,30	: DAN202K
D8	: RM10ZLF
D9	: UZL-11(M2)
D10	: ERA85-009
D11	: 1SS181
D15	: UZL-7(L3)
D16	: UZL-11(M3)
D17	: 1SS184
D18	: UZL-6(LK1)
D22	: UZL-11(L3)
D23	: UZL-6(L3)
D25,28	: DA204K
D27	: B30-1405-05
D31,33	: UZM6.2B(X)
Q1,3,14,20,21, 30,34,44,58	: DTC124EK
Q2,22,27,28,38, 43,54,56,61	: DTC144EK
Q4	: DTA114EK
Q5	: 2SB1443
Q6,13	: DTC114EK
Q7,15,16,31,37,45	: DTA124EK
Q8	: 2SB1184
Q9,19,33,35, 42,46,51,52	: 2SC2412K
Q10	: 2SA1559(R)
Q11	: 2SD1760
Q12,18	: 2SB1326
Q17,29,50,55	: DTA144EK
Q23,24	: 2SD2114K
Q25	: 2SC2411K(R)
Q26,39	: 2SA1037K
Q32	: 2SB1565
Q36,49	: DTC114TK
Q40,41	: 2SK536
Q47,48	: 2SC2413K
Q53	: DTC144WK
Q57	: XDC124EK
Q60	: XDC144EK

MODEL NAME	COUNTRY	X14-530X-XX	C162	R45	R46	R211	Q45	A1
KRC-856R	JAPAN MADE	2-72	0.039	YES	NO	NO	NO	W02-1477-05
	MALAYSIA MADE	2-76						
KRC-856RL	JAPAN MADE	2-73	0.027	NO	YES	YES	YES	W02-1476-05
	MALAYSIA MADE	2-77						
	FRANCE MADE	2-79						

KRC-856R/856RL(E)(1/2)

voltmeter.
ual instru-

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

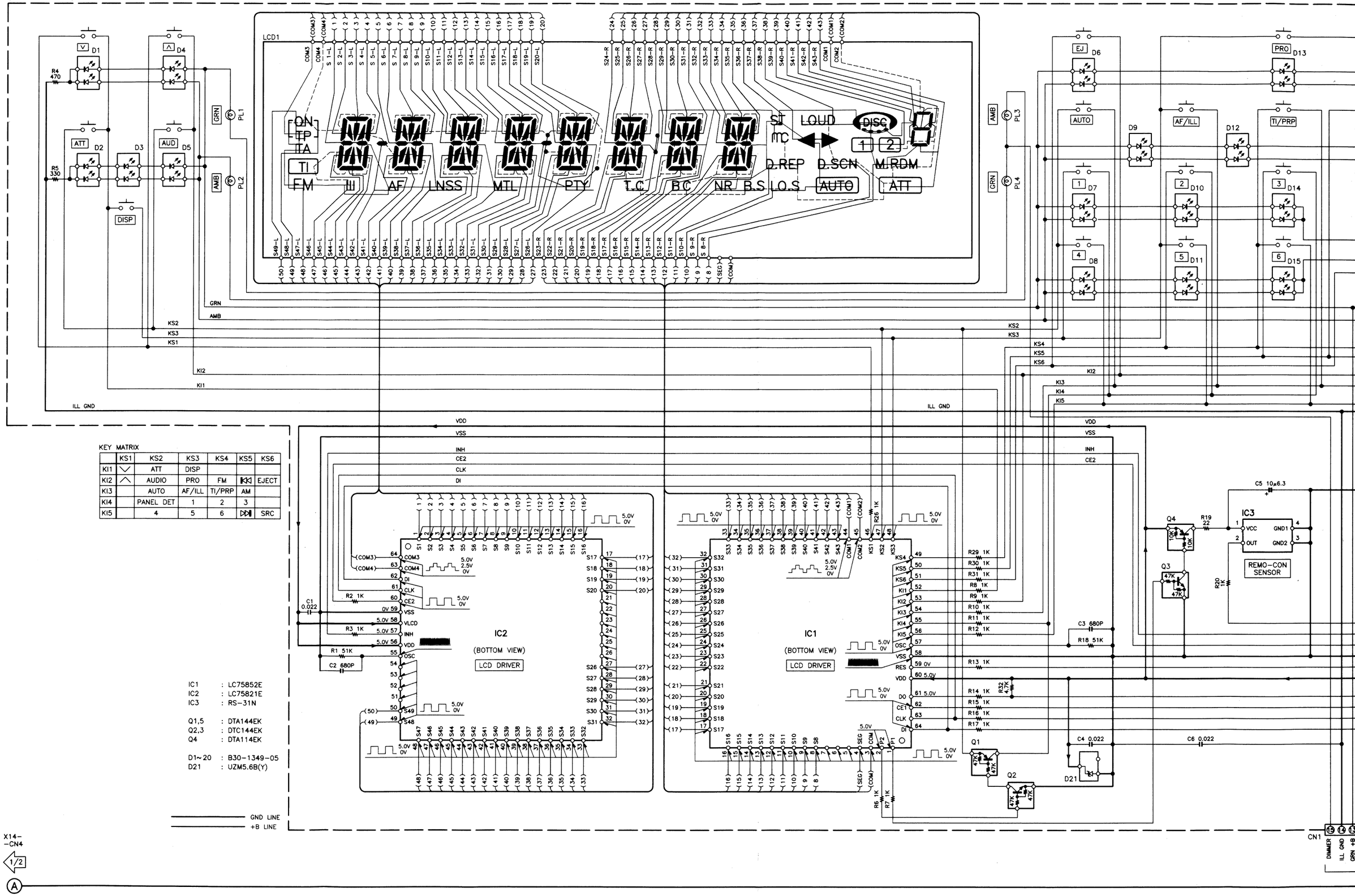
1/2

Y36-2042-73

KRC-856R/RL

KENWOOD

(X25-7312-7X)



KEY MATRIX

	KS1	KS2	KS3	KS4	KS5	KS6
KI1	V	ATT	DISP			
KI2	Λ	AUDIO	PRO	FM	⏮	EJECT
KI3		AUTO	AF/ILL	TI/PRP	AM	
KI4		PANEL DET	1	2	3	
KI5		4	5	6	⏭	SRC

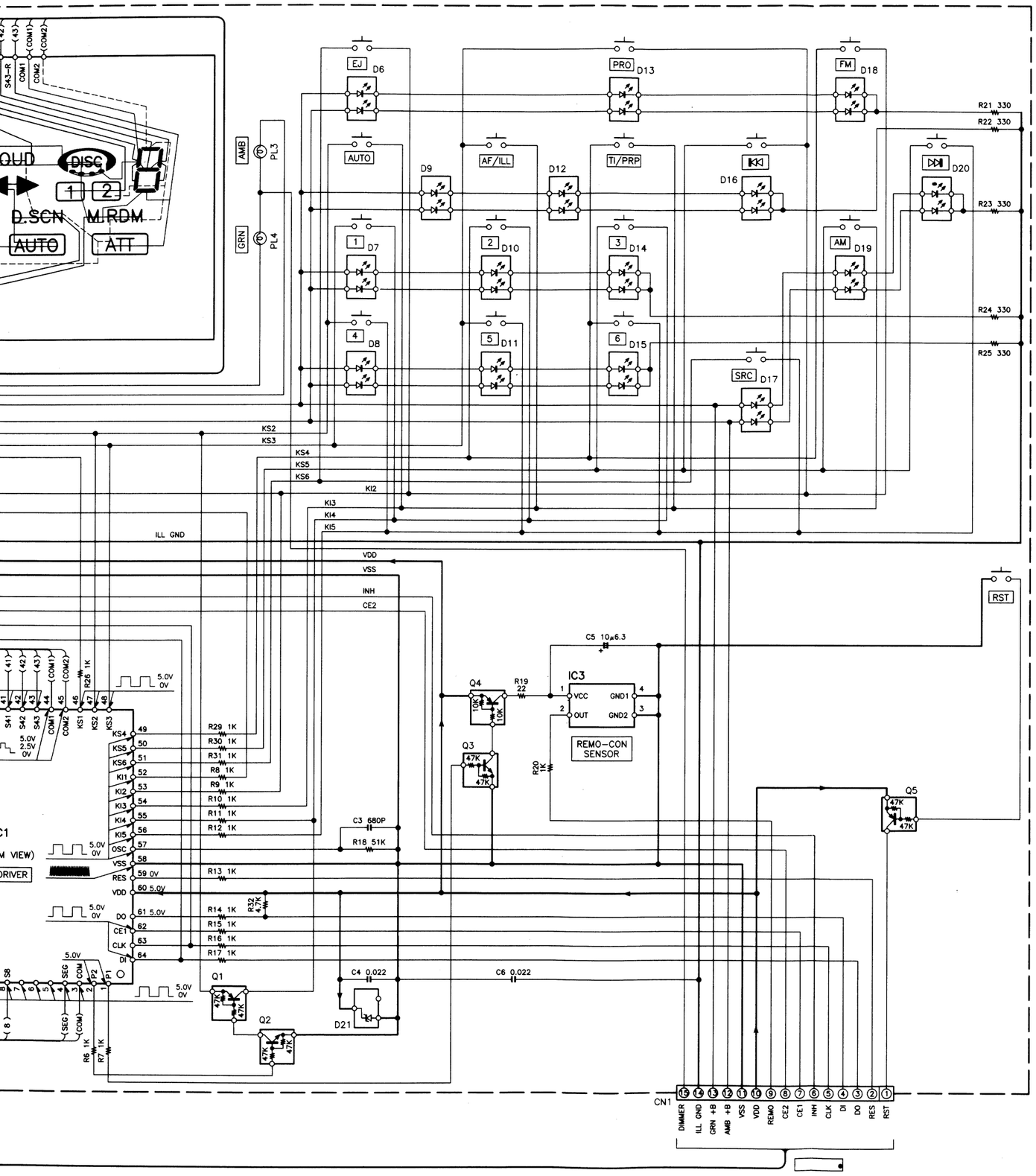
IC1 : LC75852E
IC2 : LC75821E
IC3 : RS-31N

Q1,5 : DTA144EK
Q2,3 : DTC144EK
Q4 : DTA114EK

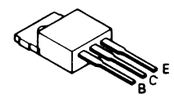
D1~20 : B30-1349-05
D21 : UZM5.6B(Y)

GND LINE
+B LINE

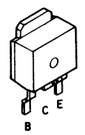
X14-
-CN4
1/2
A



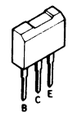
2SB1565



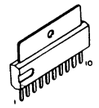
2SB1184



2SB1443



BA6238A

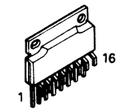


DAN202K

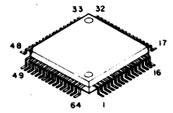
DA204K

2SK536

AN7190K

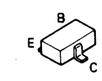


LC75852E

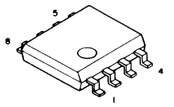


2SA1559
2SB1326

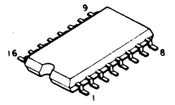
DTA114EK
DTA124EK
DTA144EK
DTC114EK
DTC114TK
DTC124EK
DTC144EK
DTC144WK
XDA124EK
XDC124EK
XDC144EK
2SA1037K
2SC2411K
2SC2412K
2SC2413K
2SD2114K



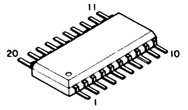
NJM4565M



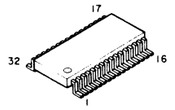
SAA6579T



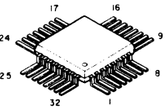
LM7001M



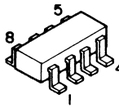
TEA6320T



TA75S393F
TC4S66F



TC4W66F

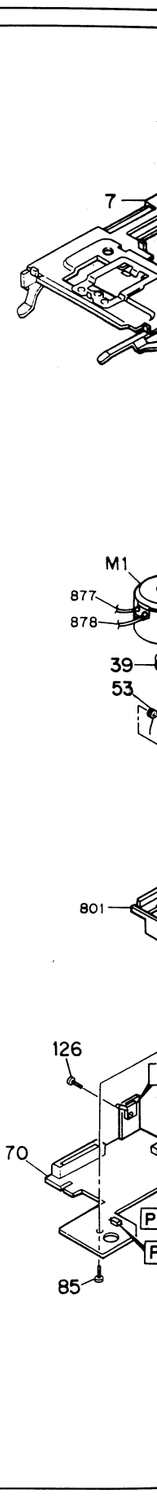


DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



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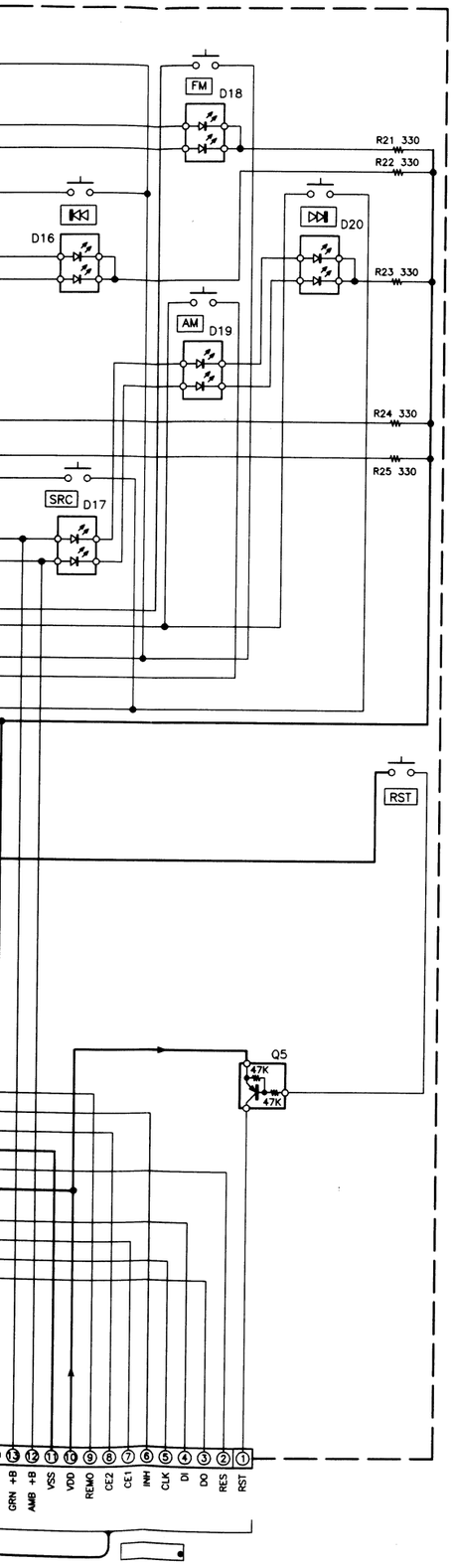
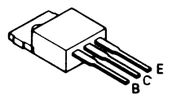
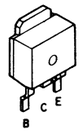


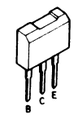
2SB1565



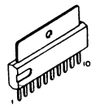
2SB1184



2SB1443



BA6238A

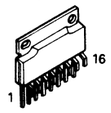


DAN202K

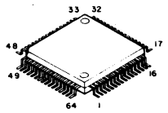
DA204K

2SK536

AN7190K



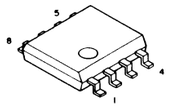
LC75852E



2SA1559
2SB1326

DTA114EK
DTA124EK
DTA144EK
DTC114EK
DTC114TK
DTC124EK
DTC144EK
DTC144WK
XDA124EK
XDC124EK
XDC144EK
2SA1037K
2SC2411K
2SC2412K
2SC2413K
2SD2114K

NJM4565M



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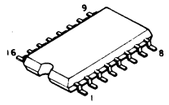

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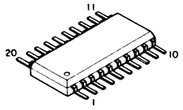

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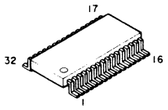
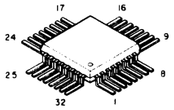
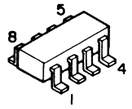


TA75S393F
TC4S66F



TC4W66F



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KRC-856R/RL

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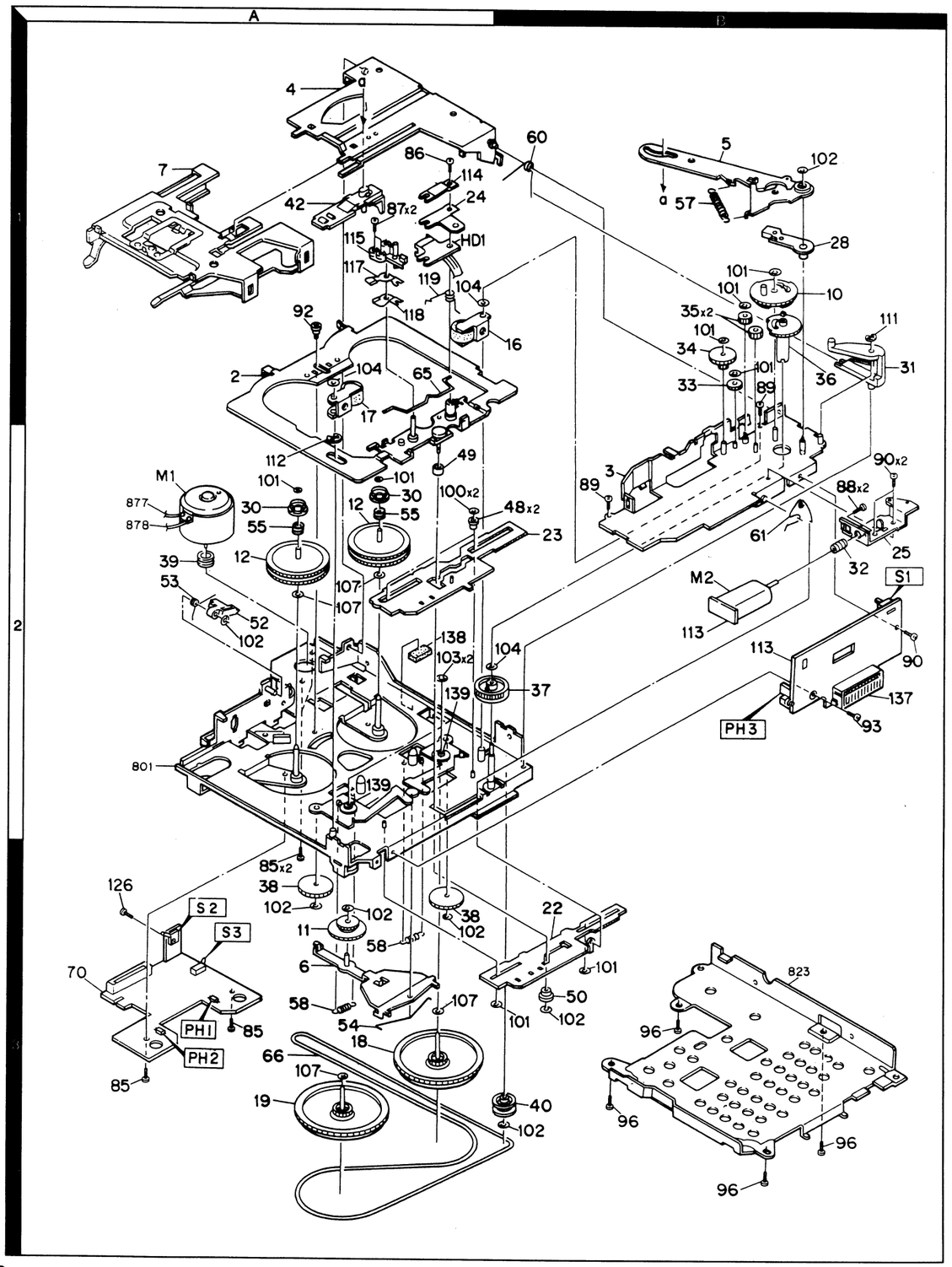
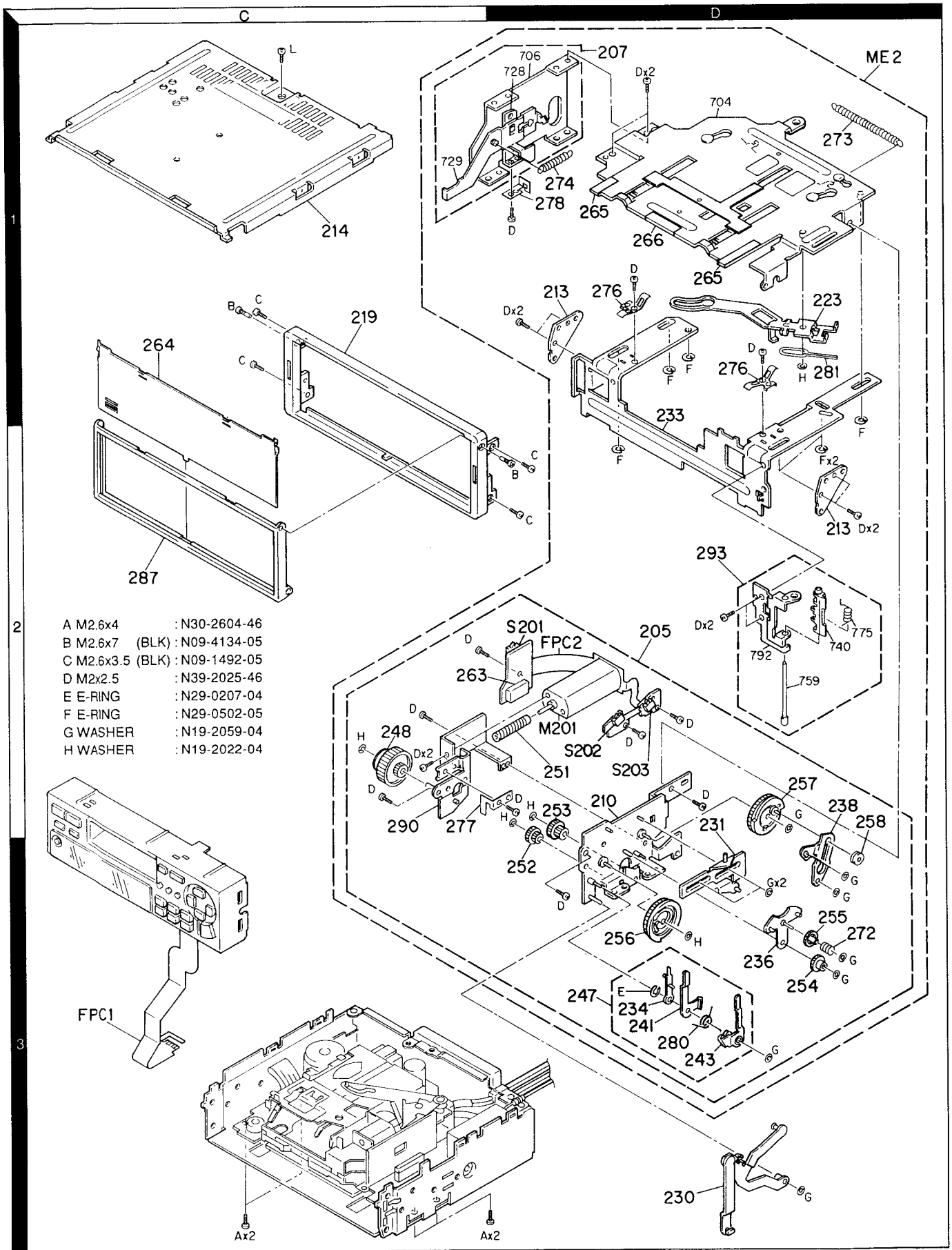
KRC-856R/RL

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



A M2.6x4		: N30-2604-46
B M2.6x7	(BLK)	: N09-4134-05
C M2.6x3.5	(BLK)	: N09-1492-05
D M2x2.5		: N39-2025-46
E E-RING		: N29-0207-04
F E-RING		: N29-0502-05
G WASHER		: N19-2059-04
H WASHER		: N19-2022-04

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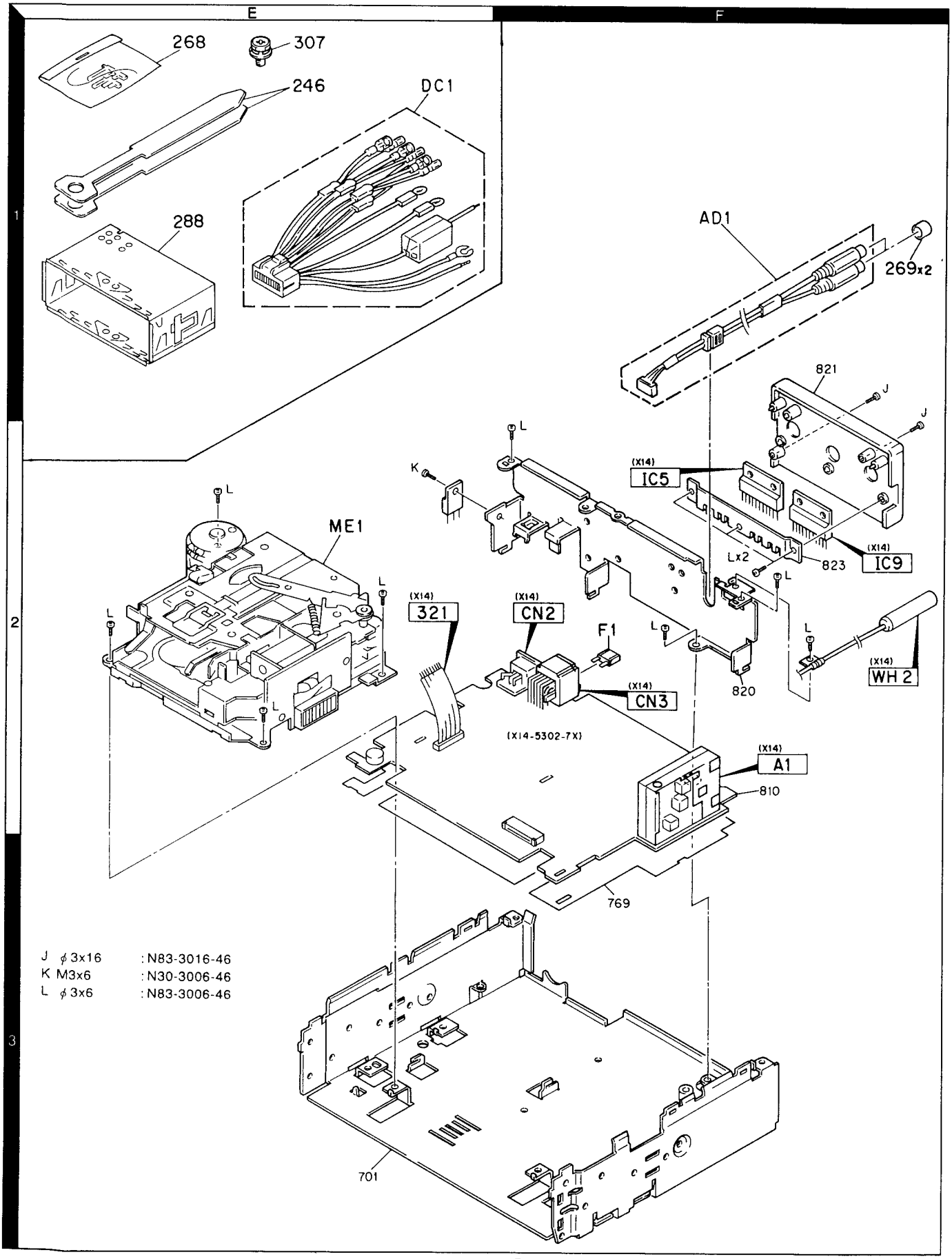
KRC-856R/RL

EXPLODED VIEW (UNIT)



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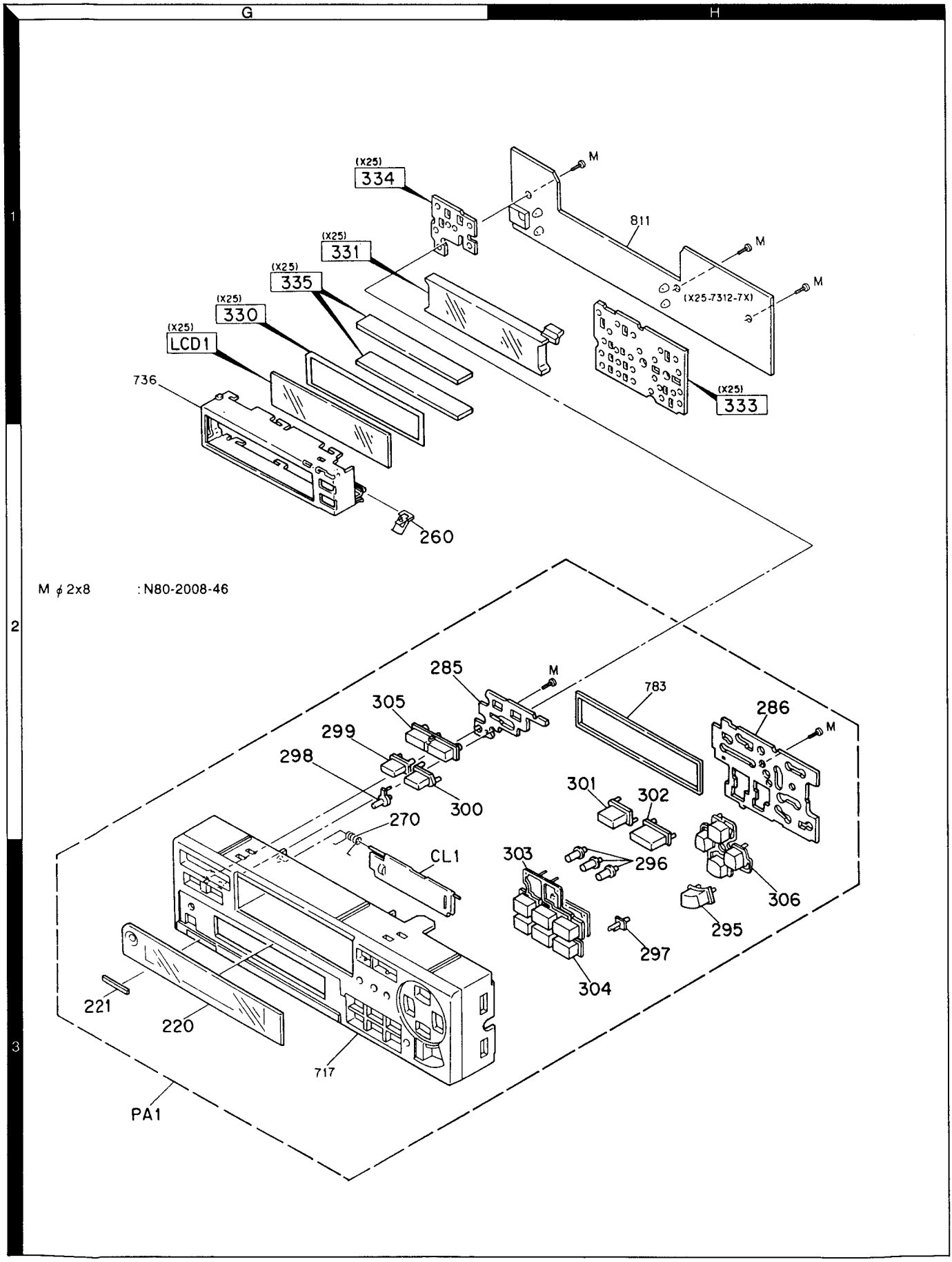
EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-856R/RL

PARTS LIST

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Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

KRC-856R/RL

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
KRC-856R/RL				
205 2D	*	A10-2423-02	CHASSIS ASSY	
207 1D	*	A10-2425-04	CHASSIS CALKING ASSY	
210 2D	*	A10-2428-03	CHASSIS CALKING ASSY	
213 1D	*	A50-1011-04	SIDE PLATE	
214 1D	*	A52-0682-02	TOP COVER	
CL1 3G	*	A53-1603-04	CASSETTE LID	
ME2 1D	*	A10-2451-02	CHASSIS ASSY	
PA1 3G	*	A64-0467-02	PANEL ASSY	R
PA1 3G	*	A64-0468-02	PANEL ASSY	RL
219 1C	*	B07-2058-01	ESCUTCHEON	
220 3G	*	B10-1596-02	FRONT GLASS	
221 3G		B43-1212-04	KENWOOD BADGE	
-		B46-0100-30	WARRANTY CARD	
-	*	B46-0612-04	ID CARD	
-		B58-1223-04	CAUTION CARD (CH,4WORD)	
-		B58-1225-04	CAUTION CARD (CH,2WORD)	RL
-	*	B58-1234-04	CAUTION CARD (ACC)	
-	*	B64-0454-00	INST. MANUAL(SPANISH)	R
-	*	B64-0455-00	INST. MANUAL(GERMAN,ITALIAN)	
-	*	B64-0457-00	INST. MANUAL(ENGLISH,FRENCH)	RL
-	*	B64-0459-00	INST. MANUAL(DUTCH)	RL
223 1D	*	D10-2990-04	ARM	
230 3D	*	D10-2997-04	ARM ASSY	
231 3D	*	D10-3000-04	LEVER ASSY	
233 1D	*	D10-3003-02	LEVER	
234 3D	*	D10-3004-04	ARM ASSY	
236 3D	*	D10-3006-04	ARM ASSY	
238 2D	*	D10-3008-04	ARM ASSY	
241 3D	*	D10-3011-04	ARM	
243 3D	*	D10-3013-04	ARM ASSY	
246 1E		D10-3023-04	LEVER	
247 3D	*	D10-3030-04	ARM ASSY	
248 2C	*	D13-1195-04	GEAR ASSY	
251 2D	*	D13-1198-04	GEAR	
252 3D	*	D13-1199-04	GEAR	
253 2D	*	D13-1200-04	GEAR	
254 3D	*	D13-1201-04	GEAR	
255 3D	*	D13-1202-04	GEAR	
256 3D	*	D13-1203-03	GEAR	
257 2D	*	D13-1204-03	GEAR	
258 3D	*	D14-0654-04	ROLLER	
ME1 2E	*	D40-1065-05	CASSETTE MECHANISM ASSY	
260 2G	*	E29-1470-04	LEAD PLATE	
263 2C	*	E40-9411-05	SOCKET FOR PIN ASSY	
AD1 1F	*	E30-4229-05	AUDIO CORD	
⚠ DC1 1E	*	E30-4244-05	DC CORD	
264 1C	*	F07-1047-04	COVER (SHUTTER)	
265 1D	*	F09-1221-04	SHEET	
266 1D	*	F09-1224-04	SHEET	
268 1E	*	F19-1267-04	BLIND PLATE ASSY	
269 1F		F29-0049-05	INSULATING COVER	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
⚠ F1 2F		F52-0006-05	FUSE(MINI BLADE)10A	
270 3G	*	G01-2720-04	TORSION COIL SPRING	
272 3D	*	G01-2722-04	COMPRESSION SPRING	
273 1D	*	G01-2723-04	EXTENSION SPRING	
274 1D	*	G01-2724-04	EXTENSION SPRING	
276 1D	*	G02-1208-04	FLAT SPRING	
277 2C	*	G02-1209-04	FLAT SPRING	
278 1D	*	G02-1210-04	FLAT SPRING	
280 3D	*	G09-2012-04	SPRING	
281 1D	*	G09-2013-04	SPRING	
-	*	H10-4483-02	POLYSTYRENE FOAMED FIXTURE	
-		H25-0329-04	PROTECTION BAG (280X450X0.03)	R
-		H25-0334-04	PROTECTION BAG (125X250X0.03)	
-		H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		H25-1111-04	PROTECTION BAG (280X450X0.03)	RL
-	*	H54-0334-04	ITEM CARTON CASE	R
-	*	H54-0335-04	ITEM CARTON CASE	RL
-	*	H64-0369-04	OUTER CARTON CASE	R
-	*	H64-0370-04	OUTER CARTON CASE	RL
285 2G	*	J19-4587-04	HOLDER	
286 2H	*	J19-4588-03	HOLDER	
287 2C	*	J19-4589-03	HOLDER	
288 1E	*	J21-7566-03	MOUNTING HARDWARE ASSY	
290 2C	*	J21-7568-04	MOUNTING HARDWARE ASSY	
293 2D	*	J21-7595-03	MOUNTING HARDWARE ASSY	
FPC1 3C	*	J84-0049-03	FLEXIBLE PRINTED WIRING BOARD	
FPC2 2D	*	J84-0050-03	FLEXIBLE PRINTED WIRING BOARD	
295 3H	*	K24-1574-03	KNOB (SRC)	
296 3H	*	K24-1575-04	KNOB (AUTO····)	
297 3H	*	K24-1576-04	KNOB (RESET)	
298 2G	*	K24-1577-04	KNOB (DISP)	
299 2G	*	K24-1578-04	KNOB (ATT)	
300 2G	*	K24-1579-04	KNOB (AUD)	
301 2H	*	K24-1580-04	KNOB (EJECT)	
302 2H	*	K24-1581-04	KNOB (PRO)	
303 3H	*	K25-0667-03	KNOB (1-3)	
304 3H	*	K25-0668-03	KNOB (4-6)	
305 2G	*	K25-0669-03	KNOB (VOL)	
306 3H	*	K25-0670-03	KNOB (FM/AM,+/-)	
307 1E		N09-1885-05	SEMS (MACHINE SCREW)	
A 3C		N30-2604-46	PAN HEAD MACHINE SCREW	
B 1C	*	N09-4134-05	STEPPED SCREW	
C 1C		N09-1492-05	MACHINE SCREW (2.6X3.5)	
D 1D		N39-2025-46	PAN HEAD MACHIN SCREW	
E 3D		N29-0207-04	RETAINING RING (2.5)	
F 1D		N29-0502-05	RETAINING RING (2X6.5X0.4)	
G 3D	*	N19-2059-04	FLAT WASHER	
H 2D		N19-2022-04	FLAT WASHER	
L 2E		N83-3006-46	PAN HEAD TAPTITE SCREW	
M 1H		N80-2008-46	PAN HEAD TAPTITE SCREW	
S201 2C	*	S68-0814-05	PUSH SWITCH	
S202,203 2D	*	S68-0816-05	PUSH SWITCH	

E: Europe **W**: Without Europe **P**: Canada **X**: Australia
K: U.S.A and Canada **M**: Without Europe, U.S.A. and Canada

R : KRC-856R
RL : KRC-856RL
⚠ indicates safety critical components.

PARTS LIST

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KRC-856R/RL
(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向
M201 2D		T42-0731-05	DC MOTOR	
SYNTHESIZER UNIT (X14-5302-76 : KRC-856R, 2-77 : KRC-856RL)				
D27		B30-1405-05	LED	
C1 ,2		CE04CW1HR22M	ELECTRO 0.22UF 50WV	
C3		CK73FB1H103K	CHIP C 0.010UF K	
C4	*	C90-2823-05	ALMINIUM ELECTROLYTIC C.	
C5	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C6		CK73FB1H103K	CHIP C 0.010UF K	
C7	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C8 ,9		CK73FB1H223KTA	CHIP C 0.022UF K	
C10		CK73FB1E473KTA	CHIP C 0.047UF K	
C11		CK73FB1H103K	CHIP C 0.010UF K	
C12	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C13		CK73FB1H223KTA	CHIP C 0.022UF K	
C14		C90-2690-05	ELECTRO 4700UF 16WV	
C15		CK73FB1H223KTA	CHIP C 0.022UF K	
C16		C92-0009-05	CHIP-TAN 4.7UF 10WV	
C17		CK73FB1H103K	CHIP C 0.010UF K	
C18	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C19		CK73FB1H103K	CHIP C 0.010UF K	
C20		CK73FB1H223KTA	CHIP C 0.022UF K	
C21	*	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C22		CK73FB1H223KTA	CHIP C 0.022UF K	
C23		C92-0509-05	CHIP-TAN 10UF 6.3WV	
C24 ,25		CK73FB1H223KTA	CHIP C 0.022UF K	
C26		CK73FB1H103K	CHIP C 0.010UF K	
C27 ,28		CK73FB1H223KTA	CHIP C 0.022UF K	
C29		CK73FB1H103K	CHIP C 0.010UF K	
C30		C90-1827-05	ELECTRO 0.047F 5.5WV	
C31		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C32		CK73FB1H223KTA	CHIP C 0.022UF K	
C33		CK73FB1H103K	CHIP C 0.010UF K	
C34	*	C90-2831-05	ALMINIUM ELECTROLYTIC C.	
C35		CK73FB1H223KTA	CHIP C 0.022UF K	
C36		C90-2683-05	ELECTRO 100UF 16WV	
C37 ,38		CK73EB1E104K	CHIP C 0.10UF K	
C39 ,40		CK73EB1E184K	CHIP C 0.18UF K	
C41 ,42	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C43	*	C90-2831-05	ALMINIUM ELECTROLYTIC C.	
C44		CC73FCH1H070D	CHIP C 7.0PF D	
C45 ,46		CK73FB1H472K	CHIP C 4700PF K	
C47		CK73FB1H223KTA	CHIP C 0.022UF K	
C48	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C49 ,50		CK73FB1E473KTA	CHIP C 0.047UF K	
C51 ,52		CK73EB1E104K	CHIP C 0.10UF K	
C53 ,54	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C55		CC73FCH1H070D	CHIP C 7.0PF D	
C56		CK73FB1C104K	CHIP C 0.10UF K	
C57	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C58		CK73FB1H223KTA	CHIP C 0.022UF K	
C59 ,60		CK73FB1H182K	CHIP C 1800PF K	
C61 ,62	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C63 ,64		C92-1018-05	ELECTRO 1.0UF 50WV	
C65 ,66	*	C90-2832-05	ALMINIUM ELECTROLYTIC C.	
C67 ,68		C92-0002-05	CHIP-TAN 0.22UF 35WV	
C69 ,70		CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C71 ,72		CK73FB1H182K	CHIP C 1800PF K	
C73 -76		CK73EB1E104K	CHIP C 0.10UF K	
C77		C90-2683-05	ELECTRO 100UF 16WV	
C78		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C79		CK73FB1H103K	CHIP C 0.010UF K	
C80		CK73FB1H223KTA	CHIP C 0.022UF K	
C81 ,82		C93-1052-05	CERAMIC 6800PF K	
C85 ,86		CE04DW1H100M	ELECTRO 10UF 50WV	
C89		CK73EB1C474K	CHIP C 0.47UF K	
C90		CK73FB1H472K	CHIP C 4700PF K	
C91 -93		CK73FB1H103K	CHIP C 0.010UF K	
C94		CK73FB1H393K	CHIP C 0.039UF K	
C95	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C96		C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C97		CC73FCH1H331J	CHIP C 330PF J	
C98	*	C90-2828-05	ALMINIUM ELECTROLYTIC C.	
C99 ,100		CK73FB1H103K	CHIP C 0.010UF K	
C101		CK73FB1E473KTA	CHIP C 0.047UF K	
C102		CK73FB1H561K	CHIP C 560PF K	
C103	*	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C104		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C107,108		CK73FB1C104K	CHIP C 0.10UF K	
C115,116		CE04CW1H0R1M	ELECTRO 0.1UF 50WV	
C117		CK73FB1H103K	CHIP C 0.010UF K	
C118		CK73FB1H223KTA	CHIP C 0.022UF K	
C119		C93-0025-05	CERAMIC 0.22UF K	
C120		CC73FCH1H820J	CHIP C 82PF J	
C121		CC73FCH1H470J	CHIP C 47PF J	
C122		C93-0025-05	CERAMIC 0.22UF K	
C123,124		CC73FSL1H821J	CHIP C 820PF J	
C125,126	*	C90-2825-05	ALMINIUM ELECTROLYTIC C.	
C127,128		CC73FSL1H821J	CHIP C 820PF J	
C129,130		CK73FB1H123K	CHIP C 0.012UF K	
C131		CK73FB1H472K	CHIP C 4700PF K	
C132		CK73FB1H223KTA	CHIP C 0.022UF K	
C133		CE04DW1A101M	ELECTRO 100UF 10WV	
C134		CK73FB1H222K	CHIP C 2200PF K	
C135		CK73FB1H122K	CHIP C 1200PF K	
C136		CC73FCH1H270J	CHIP C 27PF J	
C137		CK73FB1H102K	CHIP C 1000PF K	
C138		CK73FB1H223KTA	CHIP C 0.022UF K	
C139		CC73FCH1H101J	CHIP C 100PF J	
C140		CC73FCH1H270J	CHIP C 27PF J	
C141		CK73FB1H561K	CHIP C 560PF K	
C142		CK73FB1H223KTA	CHIP C 0.022UF K	
C143		CC73FCH1H221J	CHIP C 220PF J	
C144		CK73FB1H561K	CHIP C 560PF K	
C145		CK73FB1H223KTA	CHIP C 0.022UF K	
C146		CK73FB1H103K	CHIP C 0.010UF K	
C147		CE04CW1A100M	ELECTRO 10UF 10WV	
C148		CE04DW1A101M	ELECTRO 100UF 10WV	
C149		CF92FV1H122J	MF-C 1200PF J	

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KRC-856R/RL

PARTS LIST

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(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
C150		CK73FB1E683KTA	CHIP C 0.068UF K	
C151		CF92FV1H103J	MF-C 0.010UF J	
C152		C90-2807-05	NP-ELEC 0.47UF 35WV	
C153		CK73FB1H223KTA	CHIP C 0.022UF K	
C154		CK73FB1H182K	CHIP C 1800PF K	
C155		CK73FB1C104K	CHIP C 0.10UF K	
C156		CK73FB1H223KTA	CHIP C 0.022UF K	
C157,158		CK73FB1C104K	CHIP C 0.10UF K	
C159		CK73FB1H222K	CHIP C 2200PF K	
C160		CK73FB1H472K	CHIP C 4700PF K	
C161		CK73FB1H273K	CHIP C 0.027UF K	R
C161,162		CK73FB1H273K	CHIP C 0.027UF K	RL
C162		CK73FB1H393K	CHIP C 0.039UF K	R
C163,164		CK73FB1H102K	CHIP C 1000PF K	
C165,166		CK73FB1H153K	CHIP C 0.015UF K	
C167		CK73FB1C104K	CHIP C 0.10UF K	
C168		CE04DW1A330M	ELECTRO 33UF 10WV	
C169		CK73FB1E473KTA	CHIP C 0.047UF K	
C170		CK73FB1C104K	CHIP C 0.10UF K	
C171	⁎	C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C172		CE04DW1A101M	ELECTRO 100UF 10WV	
C173		CK73FB1H223KTA	CHIP C 0.022UF K	
C174		CK73FB1C104K	CHIP C 0.10UF K	
C175		C90-2833-05	ALMINIUM ELECTROLYTIC C.	
C176	⁎	CK73FB1E683KTA	CHIP C 0.068UF K	
C177		CK73FB1C104K	CHIP C 0.10UF K	
C178		CK73FB1E473KTA	CHIP C 0.047UF K	
C179		CK73FB1H103K	CHIP C 0.010UF K	
C180		CK73FB1E473KTA	CHIP C 0.047UF K	
C181	⁎	C90-2829-05	ALMINIUM ELECTROLYTIC C.	
C182		C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C183		CK73FB1H103K	CHIP C 0.010UF K	
C184		C92-0003-05	CHIP-TAN 0.47UF 25WV	
C185		CK73FB1H472K	CHIP C 4700PF K	
C186		C92-0004-05	CHIP-TAN 1.0UF 16WV	
C187		C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C188		CK73FB1C104K	CHIP C 0.10UF K	
C189		CC73FCH1H070D	CHIP C 7.0PF D	
C190		CK73FB1H182K	CHIP C 1800PF K	
C191,192		CK73FB1H103K	CHIP C 0.010UF K	
C193		CK73FB1H223KTA	CHIP C 0.022UF K	
C194		CC73FCH1H070D	CHIP C 7.0PF D	
C195		C92-0005-05	CHIP-TAN 2.2UF 6.3WV	
C196		CK73FB1H103K	CHIP C 0.010UF K	
C197		CC73FCH1H070D	CHIP C 7.0PF D	
C198		CK73FB1H223KTA	CHIP C 0.022UF K	
C199		CE04DW1A470M	ELECTRO 47UF 10WV	
C200		CK73FB1E823K	CHIP C 0.082UF K	
C201		CC73FCH1H471J	CHIP C 470PF J	
C202		CK73FB1H223KTA	CHIP C 0.022UF K	
C203		CC73FCH1H101J	CHIP C 100PF J	
C204		CK73FB1C104K	CHIP C 0.10UF K	
C205		C92-0509-05	CHIP-TAN 10UF 6.3WV	
C206		CK73FB1H223KTA	CHIP C 0.022UF K	
C207	⁎	C90-2824-05	ALMINIUM ELECTROLYTIC C.	

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
C208		CK73FB1H223KTA	CHIP C 0.022UF K	
C209,210		CK73EB1E104K	CHIP C 0.10UF K	
C211		CK73FB1H223KTA	CHIP C 0.022UF K	
C212-214		CK73FB1H102K	CHIP C 1000PF K	
C215,216		CK73FB1H223KTA	CHIP C 0.022UF K	
C217		CK73FB1H102K	CHIP C 1000PF K	
321 2E	⁎	E39-0092-05	LEAD WIRE	
CN1		E40-3239-05	PIN ASSY	
CN2		E56-0809-05	CYLINDRICAL RECEPTACLE	
⚠ CN3		E58-0836-05	RECTANGULAR RECEPTACLE	
CN4	⁎	E40-9399-05	FLAT CABLE CONNCTOR	
CN5	⁎	E40-9400-05	PIN ASSY	
CN6		E40-5452-05	PIN ASSY	
WH2 2F		E30-4205-05	CORD WITH PLUG	
CF1		L72-0721-05	CERAMIC FILTER	
CF2 ,3		L72-0715-05	CERAMIC FILTER	
L1 ,2		L33-0916-05	SMALL FIXED INDUCTOR	
L3 ,4		L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)	
L5		L33-0916-05	SMALL FIXED INDUCTOR	
L6		L40-1021-14	SMALL FIXED INDUCTOR(1MH)	
L7 -9		L33-0916-05	SMALL FIXED INDUCTOR	
T1		L30-0462-15	FM IFT	
X1		L77-2003-05	CRYSTAL RESONATOR(8.388608MHZ)	
X2		L77-2002-05	CRYSTAL RESONATOR	
X3		L77-1166-05	CRYSTAL RESONATOR	
X4		L78-0534-05	RESONATOR	
J 1F		N83-3016-46	PAN HEAD TAPTITE SCREW	
K 2E		N30-3006-46	PAN HEAD MACHINE SCREW	
L 2F		N83-3006-46	PAN HEAD TAPTITE SCREW	
R1		RK73FB2A271J	CHIP R 270 J 1/10W	
R2		RK73FB2A104J	CHIP R 100K J 1/10W	
R3		RK73FB2A471J	CHIP R 470 J 1/10W	
R4		RK73EB2B102J	CHIP R 1.0K J 1/8W	
R5		RK73FB2A101J	CHIP R 100 J 1/10W	
R6 ,7		RK73FB2A104J	CHIP R 100K J 1/10W	
R8		RK73FB2A471J	CHIP R 470 J 1/10W	
R9 ,10		RK73FB2A104J	CHIP R 100K J 1/10W	
R11		RK73EB2B102J	CHIP R 1.0K J 1/8W	
R12		RK73FB2A470J	CHIP R 47 J 1/10W	
R13		RK73FB2A392J	CHIP R 3.9K J 1/10W	
R14 -16		RK73FB2A104J	CHIP R 100K J 1/10W	
R17 ,18		RK73FB2A101J	CHIP R 100 J 1/10W	
R19		RK73EB2B102J	CHIP R 1.0K J 1/8W	
R20 ,21		RK73FB2A101J	CHIP R 100 J 1/10W	
R22		R92-2023-05	CHIP R 820 J 1/2W	
R23		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R24		RK73FB2A103J	CHIP R 10K J 1/10W	
R25		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R26		RK73EB2B331J	CHIP R 330 J 1/8W	
R27		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R28		RK73FB2A103J	CHIP R 10K J 1/10W	
R29		RK73EB2B103J	CHIP R 10K J 1/8W	
R30		RK73FB2A102J	CHIP R 1.0K J 1/10W	

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(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R31		RK73FB2A823J	CHIP R	82K	J	1/10W
R32		RK73FB2A392J	CHIP R	3.9K	J	1/10W
R33		RK73FB2A103J	CHIP R	10K	J	1/10W
R34		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R35		RK73FB2A473J	CHIP R	47K	J	1/10W
R36		RK73FB2A183J	CHIP R	18K	J	1/10W
R37		RK73FB2A223J	CHIP R	22K	J	1/10W
R38		RK73FB2A103J	CHIP R	10K	J	1/10W
R39		RK73FB2A153J	CHIP R	15K	J	1/10W
R40		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R41		RK73FB2A473J	CHIP R	47K	J	1/10W
R42 ,43		RK73FB2A104J	CHIP R	100K	J	1/10W
R44		RK73FB2A473J	CHIP R	47K	J	1/10W RL
R44 ,45		RK73FB2A473J	CHIP R	47K	J	1/10W R
R46		RK73FB2A473J	CHIP R	47K	J	1/10W RL
R48		RK73FB2A473J	CHIP R	47K	J	1/10W
R49		RK73FB2A104J	CHIP R	100K	J	1/10W
R53		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R54		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R55		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R57		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R58		RK73EB2B222J	CHIP R	2.2K	J	1/8W
R59 ,60		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R61		RS14DB3A332J	FL-PROOF RS	3.3K	J	1W
R62		RK73EB2B102J	CHIP R	1.0K	J	1/8W
R63 ,64		RK73EB2B2R2J	CHIP R	2.2	J	1/8W
R65 ,66		RK73FB2A332J	CHIP R	3.3K	J	1/10W
R67 -71		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R72		R92-2104-05	CHIP R	2.2	J	1W
R73 ,74		RK73FB2A362J	CHIP R	3.6K	J	1/10W
R75 ,76		RK73FB2A473J	CHIP R	47K	J	1/10W
R77		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R78		RK73FB2A223J	CHIP R	22K	J	1/10W
R79 -82		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R83 ,84		RK73EB2B2R2J	CHIP R	2.2	J	1/8W
R85 -90		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R91		RK73FB2A223J	CHIP R	22K	J	1/10W
R92 -97		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R98		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R99		RK73FB2A473J	CHIP R	47K	J	1/10W
R100		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R101,102		RK73EB2B2R2J	CHIP R	2.2	J	1/8W
R103		RK73FB2A104J	CHIP R	100K	J	1/10W
R104		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R105-108		RK73FB2A183J	CHIP R	18K	J	1/10W
R109,110		RK73FB2A362J	CHIP R	3.6K	J	1/10W
R111,112		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R113		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R114		RK73FB2A223J	CHIP R	22K	J	1/10W
R115,116		RK73EB2B2R2J	CHIP R	2.2	J	1/8W
R120-124		RK73FB2A223J	CHIP R	22K	J	1/10W
R125,126		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R127		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R128-130		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R131		RK73FB2A222J	CHIP R	2.2K	J	1/10W

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向
R132		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R133		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R134-138		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R139		RK73FB2A104J	CHIP R	100K	J	1/10W
R140		RK73FB2A471J	CHIP R	470	J	1/10W
R141		RK73FB2A334J	CHIP R	330K	J	1/10W
R142		RK73FB2A473J	CHIP R	47K	J	1/10W
R143		RK73FB2A223J	CHIP R	22K	J	1/10W
R144		RK73FB2A471J	CHIP R	470	J	1/10W
R145,146		RK73FB2A104J	CHIP R	100K	J	1/10W
R147		RK73FB2A224J	CHIP R	220K	J	1/10W
R148		RK73FB2A471J	CHIP R	470	J	1/10W
R149,150		RK73FB2A104J	CHIP R	100K	J	1/10W
R153,154		RK73FB2A101J	CHIP R	100	J	1/10W
R157		RK73FB2A471J	CHIP R	470	J	1/10W
R158		RK73FB2A334J	CHIP R	330K	J	1/10W
R159		RK73FB2A333J	CHIP R	33K	J	1/10W
R160		RK73FB2A561J	CHIP R	560	J	1/10W
R161		RK73FB2A103J	CHIP R	10K	J	1/10W
R162		RK73FB2A473J	CHIP R	47K	J	1/10W
R163		RK73FB2A163J	CHIP R	16K	J	1/10W
R165		RK73FB2A473J	CHIP R	47K	J	1/10W
R166		RK73FB2A104J	CHIP R	100K	J	1/10W
R167,168		RK73FB2A473J	CHIP R	47K	J	1/10W
R173		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R174		RK73FB2A183J	CHIP R	18K	J	1/10W
R175,176		RK73FB2A123J	CHIP R	12K	J	1/10W
R177,178		RK73FB2A183J	CHIP R	18K	J	1/10W
R179,180		RK73FB2A334J	CHIP R	330K	J	1/10W
R181-184		RK73FB2A473J	CHIP R	47K	J	1/10W
R185,186		RK73FB2A151J	CHIP R	150	J	1/10W
R187		RK73FB2A471J	CHIP R	470	J	1/10W
R188		RK73FB2A223J	CHIP R	22K	J	1/10W
R189		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R190		RK73FB2A222J	CHIP R	2.2K	J	1/10W
R191		RK73FB2A104J	CHIP R	100K	J	1/10W
R192		RK73FB2A271J	CHIP R	270	J	1/10W
R193		RK73FB2A103J	CHIP R	10K	J	1/10W
R194		RK73FB2A123J	CHIP R	12K	J	1/10W
R195		RK73FB2A822J	CHIP R	8.2K	J	1/10W
R196		RK73FB2A752J	CHIP R	7.5K	J	1/10W
R197,198		RK73FB2A104J	CHIP R	100K	J	1/10W
R199		RK73FB2A223J	CHIP R	22K	J	1/10W
R200		RK73FB2A752J	CHIP R	7.5K	J	1/10W
R201		RK73FB2A101J	CHIP R	100	J	1/10W
R202		RK73FB2A562J	CHIP R	5.6K	J	1/10W
R203-205		RK73FB2A103J	CHIP R	10K	J	1/10W
R206		RK73FB2A332J	CHIP R	3.3K	J	1/10W
R207		RK73FB2A223J	CHIP R	22K	J	1/10W
R208		RK73FB2A472J	CHIP R	4.7K	J	1/10W
R209		RK73FB2A752J	CHIP R	7.5K	J	1/10W
R210		RK73FB2A333J	CHIP R	33K	J	1/10W
R211		RK73FB2A222J	CHIP R	2.2K	J	1/10W RL
R212		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R213		RK73FB2A123J	CHIP R	12K	J	1/10W

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KRC-856R/RL

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(X14-5302-XX)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向
R214		RK73FB2A822J	CHIP R 8.2K J 1/10W	
R215		RK73FB2A223J	CHIP R 22K J 1/10W	
R216		RK73FB2A103J	CHIP R 10K J 1/10W	
R217		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R218		RK73FB2A184J	CHIP R 180K J 1/10W	
R219		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R220		RK73FB2A331J	CHIP R 330 J 1/10W	
R221		RK73FB2A101J	CHIP R 100 J 1/10W	
R222		RK73FB2A683J	CHIP R 68K J 1/10W	
R223		RK73FB2A682J	CHIP R 6.8K J 1/10W	
R224		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R225		RK73FB2A103J	CHIP R 10K J 1/10W	
R226		RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R227		RK73FB2A242J	CHIP R 2.4K J 1/10W	
R228		RK73FB2A223J	CHIP R 22K J 1/10W	
R229		RK73FB2A221J	CHIP R 220 J 1/10W	
R230		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R231		RK73FB2A392J	CHIP R 3.9K J 1/10W	
R232		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R233		RK73FB2A104J	CHIP R 100K J 1/10W	
R234		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R235		RK73FB2A224J	CHIP R 220K J 1/10W	
R236		RK73FB2A104J	CHIP R 100K J 1/10W	
R237		RK73FB2A562J	CHIP R 5.6K J 1/10W	
R238		RK73FB2A823J	CHIP R 82K J 1/10W	
R239		RK73FB2A274J	CHIP R 270K J 1/10W	
R241		RK73FB2A391J	CHIP R 390 J 1/10W	
R242		RK73FB2A331J	CHIP R 330 J 1/10W	
R243		RK73FB2A225J	CHIP R 2.2M J 1/10W	
R244		RK73FB2A103J	CHIP R 10K J 1/10W	
R245		RK73FB2A153J	CHIP R 15K J 1/10W	
R246		RK73FB2A511J	CHIP R 510 J 1/10W	
R247		RK73FB2A331J	CHIP R 330 J 1/10W	
R248		RK73FB2A271J	CHIP R 270 J 1/10W	
R249		RK73FB2A330J	CHIP R 33 J 1/10W	
R250		RK73FB2A332J	CHIP R 3.3K J 1/10W	
R251		RK73FB2A153J	CHIP R 15K J 1/10W	
R252		RK73FB2A105J	CHIP R 1.0M J 1/10W	
R253		RK73FB2A2R2J	CHIP R 2.2 J 1/10W	
R254		RK73FB2A431J	CHIP R 430 J 1/10W	
R255		RK73FB2A152J	CHIP R 1.5K J 1/10W	
R256		RK73FB2A100J	CHIP R 10 J 1/10W	
R257		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R258		RK73FB2A100J	CHIP R 10 J 1/10W	
R259		RK73FB2A823J	CHIP R 82K J 1/10W	
R260		RK73FB2A563J	CHIP R 56K J 1/10W	
R261		RK73FB2A152J	CHIP R 1.5K J 1/10W	
R262		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R263		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R264		RK73EB2B222J	CHIP R 2.2K J 1/8W	
R265-267		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R268-271		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R272		RK73FB2A223J	CHIP R 22K J 1/10W	
R273		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R274,275		RK73FB2A472J	CHIP R 4.7K J 1/10W	
R276,277		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R279		RK73FB2A222J	CHIP R 2.2K J 1/10W	
R280,281		RK73FB2A103J	CHIP R 10K J 1/10W	
R283		RK73FB2A473J	CHIP R 47K J 1/10W	
R284		RK73FB2A223J	CHIP R 22K J 1/10W	
VR1 ,2		R12-0678-05	TRIMMING P@T.(10K)	
VR3		R12-6425-05	TRIMMING P@T.(22K)	
VR4 -6		R12-6423-05	TRIMMING P@T.(10K)	
VR7	*	R12-6414-05	TRIMMING P@T.(330)	
VR8		R12-6427-05	TRIMMING P@T.(47K)	
VR9		R12-6423-05	TRIMMING P@T.(10K)	
S1		S40-1139-05	PUSH SWITCH	
BZ1		T95-0207-05	PIEZ@ELECTRIC VIBRAT@R	
D1		AM01Z	DI@DE	
D1		ERA15-01	DI@DE	
D2 -4		UZMA6.2	ZENER DI@DE	
D5 ,6		DAP202K	DI@DE	
D7		DAN202K	DI@DE	
D8		RM10ZLF	DI@DE	
D9		UZL-11(M2)	ZENER DI@DE	
D10		ERA85-009	DI@DE	
D11		1SS181	DI@DE	
D12		DAN202K	DI@DE	
D13		DAP202K	DI@DE	
D14		AM01Z	DI@DE	
D14		ERA15-01	DI@DE	
D15		UZL-7(L3)	ZENER DI@DE	
D16	*	UZL-11(M3)	ZENER DI@DE	
D17		1SS184	DI@DE	
D18	*	UZL-6(LK1)	ZENER DI@DE	
D19 ,20		DAN202K	DI@DE	
D21		DAP202K	DI@DE	
D22	*	UZL-11(L3)	ZENER DI@DE	
D23		UZL-6(L3)	ZENER DI@DE	
D24		DAN202K	DI@DE	
D25		DA204K	DI@DE	
D26		DAP202K	DI@DE	
D28		DA204K	DI@DE	
D29 ,30		DAN202K	DI@DE	
D31		UZM6.2B(X)	ZENER DI@DE	
D32		UZMA6.2	ZENER DI@DE	
D33		UZM6.2B(X)	ZENER DI@DE	
D34 -38		UZMA6.2	ZENER DI@DE	
IC1	*	TDA8579T-T	ANAL@GUE IC	
IC2		BA3906-V4	ANAL@GUE IC	
IC3		KKZ01F	CUST@M IC	
IC4	*	L9820D013TR	ANAL@GUE IC	
IC5		AN7190K	ANAL@GUE IC	
IC6		S-80740AN-D4	IC	
IC7	*	M37610MDD100FP	MI-C@M IC	
IC8		TEA6320T	ANAL@GUE IC	
IC9		AN7190K	ANAL@GUE IC	
IC10		SAA6579T	IC	

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R : KRC-856R
RL : KRC-856RL

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PARTS LIST

⋇ New Parts
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(X14-5302-XX)
(X25-7312-73)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
IC11		HA12163FP	ANALOGUE IC	
IC12		BA6238A	ANALOGUE IC	
IC13		TC4W66F	IC	
IC14		NJM4565M	IC(OP AMP X2)	
IC15		LM7001M	ANALOGUE IC	
IC16		KKC04	CUSTOM IC	
IC17		TC4S66F	IC(BILATERAL SWITCH)	
IC18		TA75S393F	IC	
Q1		DTC124EK	DIGITAL TRANSISTOR	
Q1		XDC124EK	DIGITAL TRANSISTOR	
Q2		DTC144EK	DIGITAL TRANSISTOR	
Q2		XDC144EK	DIGITAL TRANSISTOR	
Q3		DTC124EK	DIGITAL TRANSISTOR	
Q3		XDC124EK	DIGITAL TRANSISTOR	
Q4		DTA114EK	DIGITAL TRANSISTOR	
Q5		2SB1443	TRANSISTOR	
Q6		DTC114EK	DIGITAL TRANSISTOR	
Q7		DTA124EK	DIGITAL TRANSISTOR	
Q7		XDA124EK	DIGITAL TRANSISTOR	
Q8		2SB1184	TRANSISTOR	
Q9		2SC2412K	TRANSISTOR	
Q10		2SA1559(R)	TRANSISTOR	
Q11		2SD1760	TRANSISTOR	
Q12		2SB1326	TRANSISTOR	
Q13		DTC114EK	DIGITAL TRANSISTOR	
Q14		DTC124EK	DIGITAL TRANSISTOR	
Q14		XDC124EK	DIGITAL TRANSISTOR	
Q15 ,16		DTA124EK	DIGITAL TRANSISTOR	
Q15 ,16		XDA124EK	DIGITAL TRANSISTOR	
Q17		DTA144EK	DIGITAL TRANSISTOR	
Q18		2SB1326	TRANSISTOR	
Q19		2SC2412K	TRANSISTOR	
Q20 ,21		DTC124EK	DIGITAL TRANSISTOR	
Q20 ,21		XDC124EK	DIGITAL TRANSISTOR	
Q22		DTC144EK	DIGITAL TRANSISTOR	
Q22		XDC144EK	DIGITAL TRANSISTOR	
Q23 ,24		2SD2114K	TRANSISTOR	
Q25	⋇	2SC2411K(R)	TRANSISTOR	
Q26		2SA1037K	TRANSISTOR	
Q27 ,28		DTC144EK	DIGITAL TRANSISTOR	
Q27 ,28		XDC144EK	DIGITAL TRANSISTOR	
Q29		DTA144EK	DIGITAL TRANSISTOR	
Q30		DTC124EK	DIGITAL TRANSISTOR	
Q30		XDC124EK	DIGITAL TRANSISTOR	
Q31		DTA124EK	DIGITAL TRANSISTOR	
Q31		XDA124EK	DIGITAL TRANSISTOR	
Q32		2SB1565	TRANSISTOR	
Q33		2SC2412K	TRANSISTOR	
Q34		DTC124EK	DIGITAL TRANSISTOR	
Q34		XDC124EK	DIGITAL TRANSISTOR	
Q35		2SC2412K	TRANSISTOR	
Q36		DTC114TK	DIGITAL TRANSISTOR	
Q37		DTA124EK	DIGITAL TRANSISTOR	
Q37		XDA124EK	DIGITAL TRANSISTOR	
Q38		DTC144EK	DIGITAL TRANSISTOR	
Q38		XDC144EK	DIGITAL TRANSISTOR	
Q39		2SA1037K	TRANSISTOR	
Q40 ,41		2SK536	FET	
Q42		2SC2412K	TRANSISTOR	
Q43		DTC144EK	DIGITAL TRANSISTOR	
Q43		XDC144EK	DIGITAL TRANSISTOR	
Q44		DTC124EK	DIGITAL TRANSISTOR	
Q44		XDC124EK	DIGITAL TRANSISTOR	
Q45		DTA124EK	DIGITAL TRANSISTOR	RL
Q45		XDA124EK	DIGITAL TRANSISTOR	RL
Q46		2SC2412K	TRANSISTOR	
Q47 ,48		2SC2413K	TRANSISTOR	
Q49		DTC114TK	DIGITAL TRANSISTOR	
Q50		DTA144EK	DIGITAL TRANSISTOR	
Q51 ,52		2SC2412K	TRANSISTOR	
Q53		DTC144WK	DIGITAL TRANSISTOR	
Q54		DTC144EK	DIGITAL TRANSISTOR	
Q54		XDC144EK	DIGITAL TRANSISTOR	
Q55		DTA144EK	DIGITAL TRANSISTOR	
Q56		DTC144EK	DIGITAL TRANSISTOR	
Q56		XDC144EK	DIGITAL TRANSISTOR	
Q57 ,58		DTC124EK	DIGITAL TRANSISTOR	
Q57 ,58		XDC124EK	DIGITAL TRANSISTOR	
Q60 ,61		DTC144EK	DIGITAL TRANSISTOR	
Q60 ,61		XDC144EK	DIGITAL TRANSISTOR	
A1	⋇	W02-1476-05	FM/AM FRONT-END	RL
A1	⋇	W02-1477-05	FM/AM FRONT-END	R

SWITCH UNIT (X25-7312-73)

330 1G	⋇	B11-0892-04	OPTICAL DIFFUSER			
331 1G	⋇	B19-1009-04	LIGHTING BOARD			
D1 -20		B30-1349-05	LED			
LCD1 1G	⋇	B38-0626-05	LIQUID CRYSTAL			
PL1		B30-1306-05	LAMP (5.5V .125A)			
PL2 ,3		B30-1305-05	LAMP (5.5V .125A)			
PL4		B30-1306-05	LAMP (5.5V .125A)			
C1		CK73FB1H223KTA	CHIP C	0.022UF	K	
C2 ,3		CK73FB1H681K	CHIP C	680PF	K	
C4		CK73FB1H223KTA	CHIP C	0.022UF	K	
C5		C92-0509-05	CHIP-TAN	10UF	6.3WV	
C6		CK73FB1H223KTA	CHIP C	0.022UF	K	
333 1H	⋇	E29-1466-03	CONDUCTIVE RUBBER			
334 1G	⋇	E29-1467-04	CONDUCTIVE RUBBER			
335 1G	⋇	E29-1469-04	CONDUCTIVE RUBBER			
CN1	⋇	E40-9395-05	FLAT CABLE CONNCTOR			
R1		RK73FB2A513J	CHIP R	51K	J	1/10W
R2 ,3		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R4		RK73FB2A471J	CHIP R	470	J	1/10W
R5		RK73FB2A331J	CHIP R	330	J	1/10W
R6 -17		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R18		RK73FB2A513J	CHIP R	51K	J	1/10W
R19		RK73FB2A220J	CHIP R	22	J	1/10W
R20		RK73FB2A102J	CHIP R	1.0K	J	1/10W
R21 -25		RK73FB2A331J	CHIP R	330	J	1/10W
R26		RK73FB2A102J	CHIP R	1.0K	J	1/10W

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R : KRC-856R
RL : KRC-856RL

⚠ indicates safety critical components.

KRC-856R/RL

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

(X25-7312-73)
(D40-1065-05)

Ref. No. 参照番号	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向
R29 -31		RK73FB2A102J	CHIP R 1.0K J 1/10W	
R32		RK73FB2A472J	CHIP R 4.7K J 1/10W	
D21		UZM5.6B(Y)	ZENER DIODE	
IC1		LC75852E	MOS-IC	
IC2	*	LC75821E	MOS-IC	
IC3		RS-31N	ANALOGUE IC	
Q1		DTA144EK	DIGITAL TRANSISTOR	
Q2 ,3		DTC144EK	DIGITAL TRANSISTOR	
Q2 ,3		XDC144EK	DIGITAL TRANSISTOR	
Q4		DTA114EK	DIGITAL TRANSISTOR	
Q5		DTA144EK	DIGITAL TRANSISTOR	
CASSETTE MECHANISM ASSY (D40-1065-05)				
2 1A		A11-0891-08	SUB CHASSIS ASSY	
3 2B		A11-0892-08	SUB CHASSIS ASSY	
4 1A		D10-2915-08	ARM ASSY (ACTION PLATE ASSY)	
5 1B	*	D10-3026-08	ARM ASSY (LOUD ARM ASSY)	
6 3A		D10-2917-08	ARM ASSY (FR ARM ASSY)	
7 1A	*	J19-4605-08	HOLDER ASSY	
10 1B	*	D13-1211-08	GEAR ASSY (LOUD GEAR ASSY)	
11 3A		D13-1166-08	GEAR ASSY (FR GEAR ASSY)	
12 2A		D13-1167-08	GEAR ASSY (REEL GEAR ASSY)	
16 1A		D10-2918-08	ARM ASSY (F)	
17 1A		D10-2919-08	ARM ASSY (R)	
18 3A		D01-0606-08	FLYWHEEL ASSY (FLYWHEEL)	
19 3A		D01-0607-08	FLYWHEEL ASSY (FLYWHEEL)	
22 3B		D10-2920-08	LEVER (FF REW PLATE)	
23 2B		D10-2921-08	LEVER ASSY (PROGRAM PLATE)	
24 1A		D10-2922-08	LEVER	
25 2B		J19-4557-08	BRACKET (SUB MOTOR PLATE)	
28 1B	*	D10-3027-08	ARM ASSY	
30 2A		B09-0520-08	CAP (REEL CAP)	
31 1B	*	D10-2923-18	ARM (ACTION ARM)	
32 2B		D13-1168-08	GEAR (SUB MOTOR GEAR)	
33 1B		D13-1169-08	GEAR (IDOL GEAR2)	
34 1B		D13-1170-08	GEAR (IDOL GEAR1)	
35 1B		D13-1171-08	GEAR (IDOL GEAR3)	
36 1B		D13-1172-08	GEAR (MODE GEAR1)	
37 2B		D13-1173-08	GEAR (MODE GEAR2)	
38 3A		D13-1174-08	GEAR (TAKE UP GEAR)	
39 1A		D15-0910-08	PULLEY (MAIN MOTOR PULLEY)	
40 3B		D15-0911-08	PULLEY (IDOL PULLEY)	
42 1A	*	J90-0744-18	GUIDE (PACK SLIDER)	
48 2B		D14-0648-08	ROLLER (PROGRAM PLATE ROLLER)	
49 2A		D14-0649-08	ROLLER (ROLLER2)	
50 3B		D14-0650-08	ROLLER (ROLLER1)	
52 2A	*	D10-3028-08	ARM	
53 2A		G01-2706-08	TORSION SPRING	
54 3A		G09-2009-08	FORMED WIRE	
55 2A		G01-2699-08	COMPRESSION SPRING (REEL CAP)	
57 1B	*	G01-2732-08	TENSION SPRING (LOUDING ARM)	
58 3A		G01-2701-08	TENSION SPRING (TAKE UP)	
60 1B		G01-2702-08	TORSION SPRING (ACTION PLATE)	
61 2B		G01-2703-08	TORSION SPRING (MODE PLATE)	
65 1A		G09-2010-08	FORMED WIRE (PINCH ROLLER)	
66 3A		D16-0607-08	BELT	
70 3A	*	J26-4009-08	PRINT BOARD ASSY	
85 3A		N38-2022-45	MACHINE SCREW	
86 1A		N38-2030-46	MACHINE SCREW	
87 1A		N09-4114-08	SCREW	
88 2B		N38-2020-45	MACHINE SCREW	
89 2B		N35-2003-46	BINDING HEAD MACHINE SCREW	
90 2B		N86-2004-46	BINDING HEAD TAPTITE SCREW	
92 1A		N09-4115-08	SCREW	
93 2B		N35-2005-46	BINDING HEAD MACHINE SCREW	
96 3B		N38-2630-45	MACHINE SCREW	
100 2A		N19-2051-08	FLAT WASHER	
101 2A,1B		N19-2052-08	FLAT WASHER	
102 2A,3A		N19-2053-08	FLAT WASHER	
103 2A		N19-2054-08	FLAT WASHER	
104 1A,2B		N19-2055-08	FLAT WASHER	
107 2A,3A		N19-2056-08	FLAT WASHER	
111 1B		N24-3015-41	RETAINING RING	
112 2A		N24-3030-41	RETAINING RING	
113 2B		J26-4010-08	PRINT BOARD ASSY	
114 1A		G02-1185-08	PLATE SPRING	
115 1A		D10-2924-08	ARM	
117 1A		D10-2925-08	LEVER	
118 1A		D10-2926-08	LEVER	
119 1A		G01-2704-08	TORSION SPRING	
126 2A		N38-1770-45	SCREW	
137 2B		E40-9343-08	PIN ASSY	
138 2A		G11-1648-08	CUSHION	
139 2A		D21-2193-08	SHAFT ASSY (CAPSTAN)	
HD1 1A		T31-0215-08	PLAYBACK HEAD	
M1 2A		T43-0102-08	DC MOTOR (MAIN MOTOR)	
M2 2B		T43-0103-08	DC MOTOR (SUB MOTOR)	
PH1 3A		T95-0215-08	OPTO ISOLATOR	
PH3 2B		T95-0213-08	PHOTO COUPLER	
S1 2B		S74-0805-08	PUSH SWITCH	
S2 3A		S74-0806-08	LEAF SWITCH	

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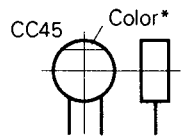
PARTS LIST

CAPACITORS

CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
0 = Multiplier
2 = 2nd number
1 = 1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

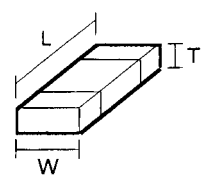
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KRC-856R/RL

SPECIFICATIONS

Specifications subject to change without notice.

FM tuner section

Frequency range	87.5 MHz – 108.0 MHz
Usable sensitivity	0.7 µV/75 Ω
Quieting sensitivity (S/N = 46 dB)	1.6 µV/75 Ω
Frequency response (±3.0 dB)	30 Hz – 15 kHz
Signal to Noise ratio (IEC-A)	68 dB
Selectivity	≧80 dB (±400 kHz) 75 dB (±200 kHz)
Stereo separation (1 kHz)	35 dB
19 kHz carrier leakage	65 dB

MW tuner section

Frequency range	531 kHz – 1611 kHz
Usable sensitivity	30 µV

LW tuner section (KRC-956RL/856RL only)

Frequency range	153 kHz – 281 kHz
Usable sensitivity	60 µV

Cassette deck section

Tape speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.09 %
Fast winding time (C-60)	100 sec.
Frequency response (120 µs)	30 Hz – 18 kHz (±3 dB)
(70 µs)	30 Hz – 20 kHz (±3 dB)
Stereo separation (1 kHz)	40 dB
Signal to Noise ratio (Dolby B/C NR OFF)	55 dB
(Dolby B NR ON)	65 dB
(Dolby C NR ON:KRC-956R/RL only)	72 dB

Audio section

Maximum output power	25 W × 4
Output power (10% THD, 1 KHz, 4 Ω)	20 W × 4
(1% THD, 1KHz, 4 Ω)	15 W × 4
Tone action	Bass: 100 Hz ±10 dB Treble: 10 kHz ±10 dB
Preout level / Impedance	1500 mV (Max.) / 180 Ω

General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	6.9 A at Rated power
Dimensions (W × H × D)	188 × 58 × 170 mm
Installation size (W × H × D)	182 × 53 × 162 mm
Weight	2.15 kg

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